



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
Denver, CO 80202-1129  
Phone 800-227-8917  
www.epa.gov/region8

MAY 04 2017

Ref: 8ENF-W-SDW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Mr. Les Farnsworth, District Supervisor  
Petroglyph Operating Company, Inc.  
4116 W 3000 S Ioka Lane  
P.O. Box 607  
Roosevelt, Utah 84066

Re: Underground Injection Control (UIC); Notice of Violation: Loss of Mechanical Integrity for the Ute Tribal 29-06 Well (EPA Permit ID# UT20736-04416, API # 43-013-30850) – Antelope Creek Oil Field, Duchesne County, Utah

Dear Mr. Farnsworth:

On April 4, 2017, the U. S. Environmental Protection Agency learned that the injection well referenced above had lost mechanical integrity on March 23, 2017. Part II Section C.3 of the permit referenced above (the Permit) requires Petroglyph Operating Co., Inc. (Petroglyph) to establish and maintain mechanical integrity. A loss of mechanical integrity is a violation of this requirement.

Part II Section C.3.c of the Permit requires Petroglyph to cease injection into this well immediately upon a loss of mechanical integrity. Before injection may resume, Part II Section C.3.a of the Permit requires Petroglyph (1) to demonstrate that the well has passed a mechanical integrity test (MIT) and (2) to obtain written authorization from the EPA.

You also have the option of plugging and abandoning this well, in accordance with the approved plugging and abandonment plan that is incorporated into the Permit. Any deviation from that plan must be submitted to the EPA for approval prior to the plugging operation, according to Part II Section E.2 of the Permit.

Any failure to comply with the Permit or the UIC regulations found at 40 C.F.R. parts 144, 146, and 148 is subject to enforcement by the EPA, as provided in section 1423 of the Safe Drinking Water Act, 42 U.S.C. § 300(h)(2).

If you have any questions concerning this letter, you may contact Nathan Wiser at (303) 312-6211 or by email at [wiser.nathan@epa.gov](mailto:wiser.nathan@epa.gov). Please direct any correspondence via U.S. mail to the attention of Mr. Wiser at the address on this letterhead, along with Mail Code 8ENF-W-SDW.

Christopher A. Thompson, Director  
Legal Enforcement Program  
Office of Enforcement, Compliance  
and Environmental Justice

Sincerely,

Arturo Palomares, Director  
Water Technical Enforcement Program  
Office of Enforcement, Compliance  
and Environmental Justice

	GREEN	BLUE	CBI
TAB			

cc: Nicole Colby, Land and Regulatory Compliance Manager  
Petroglyph Energy, Inc.

Shaun Chapoose, Chairman  
Uintah & Ouray Business Committee

Edred Secakuku, Vice-Chairman  
Uintah & Ouray Business Committee

Reannin Tapoof, Executive Assistant  
Uintah & Ouray Business Committee



bcc: Sam Vance (8P-TA)  
Tiffany Cantor (8ENF-W-SDW)  
Gary Wang (8ENF-W-SDW)

Cc addresses:

Shaun Chapoose, Chairman  
Uintah & Ouray Business Committee  
P.O. Box 70  
Fort Duchesne, Utah 84026

Edred Secakuku, Vice-Chairman  
Uintah & Ouray Business Committee  
P.O. Box 70  
Fort Duchesne, Utah 84026

Reannin Tapoof, Executive Assistant  
Uintah & Ouray Business Committee  
P.O. Box 70  
Fort Duchesne, Utah 84026

Ms. Nicole Colby  
Land and Regulatory Compliance Manager  
Petroglyph Operating Company, Inc.  
960 Broadway Ave, Suite 500  
P.O. Box 70019  
Boise, ID 83707

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"><li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li><li>Print your name and address on the reverse so that we can return the card to you.</li><li>Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>		A. Signature <b>X</b> Julie Ray <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to:  MAY 04 2017  Les Farnsworth, District Supervisor Petroglyph Operation Company, Inc. 4116 W. 3000 S. Ioka Lane P.O. Box 607 Roosevelt, Utah 84066		B. Received by (Printed Name)  C. Date of Delivery MAY - 8 2017 D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:	
2. Article Number (Transfer from service label) 7012 2210 0000 5368 7749		3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
PS Form 3811, February 2004		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	

Domestic Return Receipt 102595-02-M-1540

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
OFFICIAL USE	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	Les Farnsworth, District Supervisor Petroglyph Operation Company, Inc. 4116 W. 3000 S. Ioka Lane P.O. Box 607 Roosevelt, Utah 84066
Sent	
Street or PO	
City, State, ZIP+4	

PS Form 3800, August 2006 See Reverse for Instructions



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Re: Underground Injection Control (UIC); Notice of Violation: Loss of Mechanical Integrity for the Ute Tribal 29-06 Well (EPA Permit ID# UT20736-04416, API # 43-013-30850) – Antelope Creek Oil Field, Duchesne County, Utah

Dear Mr. Farnsworth:

On April 4, 2017, the U. S. Environmental Protection Agency learned that the injection well referenced above had lost mechanical integrity on March 23, 2017. Part II Section C.3 of the permit referenced above (the Permit) requires Petroglyph Operating Co., Inc. (Petroglyph) to establish and maintain mechanical integrity. A loss of mechanical integrity is a violation of this requirement.

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You also have the option of plugging and abandoning this well, in accordance with the approved plugging and abandonment plan that is incorporated into the Permit. Any deviation from that plan must be submitted to the EPA for approval prior to the plugging operation, according to Part II Section E.2 of the Permit.

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Christopher A. Thompson, Director  
Legal Enforcement Program  
Office of Enforcement, Compliance  
and Environmental Justice

Arturo Palomares, Director  
Water Technical Enforcement Program  
Office of Enforcement, Compliance  
and Environmental Justice

cc: Nicole Colby, Land and Regulatory Compliance Manager  
Petroglyph Energy, Inc.

Shaun Chapoose, Chairman  
Uintah & Ouray Business Committee

Edred Secakuku, Vice-Chairman  
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*Chris Thompson*

~~Andrea Madigan~~, Acting Director  
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Office of Enforcement, Compliance  
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Arturo Palomares, Director  
Water Technical Enforcement Program  
Office of Enforcement, Compliance  
and Environmental Justice

INCU RENCES	Author + ext. <i>D. B. 6198</i>	Print 1 <sup>st</sup> Initial + last name <i>G. Wang</i>	<i>J. Dally</i>	<i>T. Cantor</i>	<i>Thompson</i>				
	Office code <i>8ENF-W-SDW</i>	<i>8ENF-W-SDW</i>	<i>8ENF-AT-TP</i>	<i>8ENF-W-SDW</i>	<i>8ENF-L</i>				
		<i>4/13/17</i>	<i>4/14/17</i>	<i>4/17/17</i>	<i>5/1/17</i>				



cc: Nicole Colby, Land and Regulatory Compliance Manager  
Petroglyph Energy, Inc.

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Uintah & Ouray Business Committee

Edred Secakuku, Vice-Chairman  
Uintah & Ouray Business Committee

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Uintah & Ouray Business Committee

bcc: Sam Vance (8P-TA)  
Gary Wang (8ENF-W-SDW)

Cc addresses:

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Uintah & Ouray Business Committee  
P.O. Box 70  
Fort Duchesne, Utah 84026

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Fort Duchesne, Utah 84026

Ms. Nicole Colby  
Land and Regulatory Compliance Manager  
Petroglyph Operating Company, Inc.  
960 Broadway Ave, Suite 500  
P.O. Box 70019  
Boise, ID 83707

# Inspection Report For Well: UT20736 - 04416

U.S. Environmental Protection Agency  
Underground Injection Control Program, 8ENF-T  
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 9/24/2013

INSPECTOR(S): Lead: Roberts, Sarah

Date: 12/10/2013

Others: Ajayi, Christopher

Time: 1:56 am / pm

OPERATOR (only if different):

REPRESENTATIVE(S): Chad Stevenson

## PRE-INSPECTION REVIEW

### Petroglyph Operating Company, Inc

Well Name: Ute Tribal 29-06

Well Type: Enhanced Recovery (2R)

Operating Status: AC (ACTIVE) as of 12/31/2002

Oil Field: Antelope Creek (Duchesne)

Location: SENW S29 T5S R3W

Indian Country: X, Uintah and Ouray

Last Inspection: 8/28/2012

Allowable Inj Pressure: 2015 /

Last MIT: Pass 7/25/2011

Annulus Pressure From Last MIT: 1040

BLACK = POSSIBLE VIOLATION

GREY = DATA MISSING

### INSPECTION TYPE:

(Select One)

☐ Construction / Workover

☐ Response to Complaint

☐ Other

☐ Plugging

☒ Routine

ICIS Entered

☐ Post-Closure

☐ Witness MIT

Date 12/10/13

### OBSERVED VALUES:

Initials DS

Tubing Gauge:

☒ Yes  
☐ No

Pressure: U: 1544/L: psig

Gauge Range: Scada psig

Gauge Owner:

☐ EPA

☒ Operator

Annulus Gauge:

☒ Yes  
☐ No

Pressure: 0 psig

Gauge Range: opened psig

Gauge Owner:

☒ EPA

☐ Operator

Bradenhead Gauge:

☐ Yes  
☐ No

Pressure: psig

Gauge Range: psig

Gauge Owner:

☐ EPA

☐ Operator

Pump Gauge:

☐ Yes  
☐ No

Pressure: psig

Gauge Range: psig

Gauge Owner:

☐ EPA

☐ Operator

Operating Status:

(Select One)

☒ Active

☐ Not Injecting

☐ Plugged and Abandoned

☐ Being Reworked

☐ Production

☐ Under Construction

U2 Entered

Date

Initial

See page 2 for photos, comments, and site conditions.

GREEN	BLUE	CBI

## Inspection Report For Well: UT20736 - 04416 (PAGE 2)

**PHOTOGRAPHS:**☐

Yes

☒

No

List of photos taken: \_\_\_\_\_

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**Comments and site conditions observed during inspection:** \_\_\_\_\_

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**GPS:** GPS File ID: \_\_\_\_\_

Signature of EPA Inspector(s):

☐

Data Entry

☐

Compliance Staff

☐

Hard Copy Filing

# NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII, 999 18TH STREET - SUITE 500  
DENVER, COLORADO 80202-2405

Date: 12/10/13

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 8:00a

Firm Name: Petroglyph Operating, Inc.

Firm Address: Roosevelt, UT, Antelope Creek Oil Field

## REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

## SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Sarah Roberts

Inspector's Name & Title (Print)

[Signature]  
Inspector's Signature



# Inspection Report For Well: UT20736 - 04416

U.S. Environmental Protection Agency  
Underground Injection Control Program, 8ENF-T  
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 7/27/2012

INSPECTOR(S): Lead: Breffle, Don Date: 8/28/2012  
Others: Zhang, Qian Time: 3:40 am / pm  
OPERATOR (only if different): Chad Stevenson Rodrigo Herrada  
REPRESENTATIVE(S):

## PRE-INSPECTION REVIEW

### Petroglyph Operating Company, Inc

Well Name: Ute Tribal 29-06  
Well Type: Enhanced Recovery (2R)  
Operating Status: AC (ACTIVE) as of 12/31/2002  
Oil Field: Antelope Creek (Duchesne)  
Location: SENW S29 T5S R3W  
Indian Country: X, Uintah and Ouray  
Last Inspection: 7/13/2010 Allowable Inj Pressure: 2015 /  
Last MIT: Pass 7/25/2011 Annulus Pressure From Last MIT: 1040

BLACK = POSSIBLE VIOLATION

GREY = DATA MISSING

### INSPECTION TYPE: (Select One)

☐ Construction / Workover  
☐ Plugging  
☐ Post-Closure

☐ Response to Complaint  
☒ Routine  
☐ Witness MIT

ICIS Entered

Date: 8/14/12  
Initials: JB

### OBSERVED VALUES:

Tubing Gauge: ☒ Yes Pressure: U: 1787 / L: \_\_\_\_\_ psig Gauge Owner: ☐ EPA  
☐ No Gauge Range: SCADA \_\_\_\_\_ psig ☒ Operator

Annulus Gauge: ☒ Yes Pressure: 0 \_\_\_\_\_ psig Gauge Owner: ☐ EPA  
☐ No Gauge Range: opened annulus \_\_\_\_\_ psig ☒ Operator

Bradenhead Gauge: ☐ Yes Pressure: \_\_\_\_\_ psig Gauge Owner: ☐ EPA  
☐ No Gauge Range: \_\_\_\_\_ psig ☐ Operator

Pump Gauge: ☐ Yes Pressure: \_\_\_\_\_ psig Gauge Owner: ☐ EPA  
☐ No Gauge Range: \_\_\_\_\_ psig ☐ Operator

Operating Status: ☒ Active ☐ Not Injecting ☐ Plugged and Abandoned  
(Select One) ☐ Being Reworked ☐ Production ☐ Under Construction  
Date: 8/19/12  
Initial: JB

See page 2 for photos, comments, and site conditions.



**Inspection Report For Well: UT20736 - 04416 (PAGE 2)**

**PHOTOGRAPHS:**

☐ Yes

☒ No

List of photos taken: \_\_\_\_\_

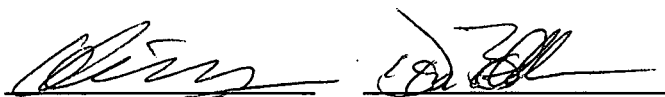
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Comments and site conditions observed during inspection:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**GPS:** GPS File ID: \_\_\_\_\_

Signature of EPA Inspector(s):



☐ Data Entry

☐ Compliance Staff

☐ Hard Copy Filing

# NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII, 999 18TH STREET - SUITE 500  
DENVER, COLORADO 80202-2405

Date: 8/28/12

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 8:00 AM

Firm Name: Petroglyph Operating Co

Firm Address: 4116 W 3000 S 106th Ln  
Roosevelt, UT

## REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

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Don Brettle

Inspector's Name & Title (Print)

Dian Zhang

Don Brettle

Inspector's Signature

[Signature]



# Inspection Report For Well: UT20736 - 04416

U.S. Environmental Protection Agency  
Underground Injection Control Program, 8ENF-T  
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 7/9/2010

INSPECTOR(S): Lead: Wiser, Nathan Date: 7/13/2010  
Others: Roberts, Sarah Breffle, Don Time: 5:12 am / pm  
OPERATOR (only if different): Chad Stevenson  
REPRESENTATIVE(S): \_\_\_\_\_

PRE-INSPECTION REVIEW											
<b>Petroglyph Operating Company, Inc</b>		<table border="1"><tr><td></td><td>GREEN</td><td>BLUE</td><td>CBI</td></tr><tr><td>TAB</td><td></td><td>1</td><td></td></tr></table>			GREEN	BLUE	CBI	TAB		1	
	GREEN	BLUE	CBI								
TAB		1									
Well Name:	Ute Tribal 29-06										
Well Type:	Enhanced Recovery (2R)										
Operating Status:	AC (ACTIVE) as of 12/31/2002										
Oil Field:	Antelope Creek (Duchesne)										
Location:	SEW S29 T5S R3W										
Indian Country:	X, Uintah and Ouray										
Last Inspection:	6/18/2008	Allowable Inj Pressure:	2015 /								
Last MIT:	Pass 7/26/2006	Annulus Pressure From Last MIT:	1100								

BLACK = POSSIBLE VIOLATION

GREY = DATA MISSING

INSPECTION TYPE: (Select One) ☐ Construction / Workover ☐ Response to Complaint ☐ Other  
☐ Plugging ☒ Routine  
☐ Post-Closure ☐ Witness MIT

## OBSERVED VALUES:

Tubing Gauge:	<input checked="" type="checkbox"/> Yes	Pressure: <u>U: 1960 / L:</u> psig	Gauge Owner: <input checked="" type="checkbox"/> EPA
	<input type="checkbox"/> No	Gauge Range: <u>0 - 3000</u> psig	<input type="checkbox"/> Operator
Annulus Gauge:	<input checked="" type="checkbox"/> Yes	Pressure: <u>0</u> psig	Gauge Owner: <input checked="" type="checkbox"/> EPA
	<input type="checkbox"/> No	Gauge Range: <u>opened annulus</u> psig	<input type="checkbox"/> Operator
Bradenhead Gauge:	<input type="checkbox"/> Yes	Pressure: _____ psig	Gauge Owner: <input type="checkbox"/> EPA
	<input type="checkbox"/> No	Gauge Range: _____ psig	<input type="checkbox"/> Operator
Pump Gauge:	<input type="checkbox"/> Yes	Pressure: _____ psig	Gauge Owner: <input type="checkbox"/> EPA
	<input type="checkbox"/> No	Gauge Range: _____ psig	<input type="checkbox"/> Operator
Operating Status:	<input checked="" type="checkbox"/> Active	<input type="checkbox"/> Not Injecting	<input type="checkbox"/> Plugged and Abandoned
(Select One)	<input type="checkbox"/> Being Reworked	<input type="checkbox"/> Production	<input type="checkbox"/> Under Construction

ICIS Entered

Date 7/14/10  
Initials SB

See page 2 for photos, comments, and site conditions.

Inspection Report For Well: UT20736 - 04416 (PAGE 2)

PHOTOGRAPHS:

☐

Yes

☒

No

List of photos taken: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments and site conditions observed during inspection: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

GPS: GPS File ID: \_\_\_\_\_

Signature of EPA Inspector(s):

John M. G. A. Q. Don Bell

☐

Data Entry

☐

Compliance Staff

☐

Hard Copy Filing

# Inspection Report For Well: UT20736 - 04416

U.S. Environmental Protection Agency  
Underground Injection Control Program, 8ENF-T  
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 6/13/2008

INSPECTOR(S): Lead: Wiser, Nathan Date: 6/18/2008  
Others: Sumaiku, Yohan Time: 8:46 (am) / pm  
OPERATOR (only if different): Chad Stevenson  
REPRESENTATIVE(S): Lee Blackhair - Ute Tribe

## PRE-INSPECTION REVIEW

### Petroglyph Operating Company, Inc

Well Name: Ute Tribal 29-06  
Well Type: Enhanced Recovery (2R)  
Operating Status: AC (ACTIVE) as of 12/31/2002  
Oil Field: Antelope Creek (Duchesne)  
Location: SENW S29 T5S R3W  
Indian Country: X, Uintah and Ouray

ICIS Entered

Date July 21, 2008

Initials MS

Last Inspection: 1/31/2007  
Last MIT: Pass 7/26/2006

Allowable Inj Pressure: 2015 /  
Annulus Pressure From Last MIT: 1100

BLACK = POSSIBLE VIOLATION

GREY = DATA MISSING

### INSPECTION TYPE: (Select One)

- ☐ Construction / Workover  
☐ Plugging  
☐ Post-Closure  
☐ Response to Complaint  
☒ Routine  
☐ Witness MIT  
☐ Other

### OBSERVED VALUES:

Tubing Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: <u>U: 1830 / L: </u> psig Gauge Range: <u>0 - 3000</u> psig	Gauge Owner: <input checked="" type="checkbox"/> EPA <input type="checkbox"/> Operator
Annulus Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: <u>0</u> psig Gauge Range: <u>0 - 2000</u> psig	Gauge Owner: <input checked="" type="checkbox"/> EPA <input type="checkbox"/> Operator
Bradenhead Gauge:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: _____ psig Gauge Range: _____ psig	Gauge Owner: <input type="checkbox"/> EPA <input type="checkbox"/> Operator
Pump Gauge:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: _____ psig Gauge Range: _____ psig	Gauge Owner: <input type="checkbox"/> EPA <input type="checkbox"/> Operator
Operating Status: (Select One)	<input checked="" type="checkbox"/> Active <input type="checkbox"/> Being Reworked	<input type="checkbox"/> Not Injecting <input type="checkbox"/> Production	<input type="checkbox"/> Plugged and Abandoned <input type="checkbox"/> Under Construction

See page 2 for photos, comments, and site conditions.

ICIS Entered  
Date JUNE 30, 2008  
Initial MS

Inspection Report For Well: UT20736 - 04416 (PAGE 2)

PHOTOGRAPHS:

☐ Yes  
☒ No

List of photos taken: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments and site conditions observed during inspection: \_\_\_\_\_  
\_\_\_\_\_  
Operator SCADA tubing pressure = 1817 psi  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

GPS: GPS File ID: \_\_\_\_\_

Signature of EPA Inspector(s):

*John M. [Signature]* *[Signature]*

☐ Data Entry

☐ Compliance Staff

☐ Hard Copy Filing

# NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII, 999 18TH STREET - SUITE 500  
DENVER, COLORADO 80202-2405

Date: 6/17/08

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 9:00a

Firm Name: Petroglyph Operating Company, Inc.

Firm Address: 4116 W 3000 S Ioka Lane PO Box 607  
Roosevelt, UT 84066

## REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

## SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Nathan M Wiser ; Yohan Sumaiiku  
Inspector's Name & Title (Print)

Nathan M. Wiser  
Inspector's Signature



# Inspection Report For Well: UT20736 - 04416

U.S. Environmental Protection Agency  
Underground Injection Control Program, 8ENF-T  
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 1/16/2007

INSPECTOR(S): Lead: Phillips, Kenneth

Date: 1/31/2007

Others: Strobel, Philip

LEALLEN BLACKHAIR

Time: 2:00

am / pm

OPERATOR (only if different):

REPRESENTATIVE(S):

PRE-INSPECTION REVIEW	
<b>Petroglyph Operating Company, Inc</b>	
Well Name:	Ute Tribal 29-06
Well Type:	Enhanced Recovery (2R)
Operating Status:	AC (ACTIVE) as of 12/31/2002
Oil Field:	Antelope Creek (Duchesne)
Location:	SEW S29 T5S R3W
Indian Country:	X, Uintah and Ouray
Last Inspection:	7/28/2005
Last MIT:	Pass 7/26/2006
Allowable Inj Pressure:	2015 /
Annulus Pressure From Last MIT:	1100

BLACK = POSSIBLE VIOLATION

GREY = DATA MISSING

INSPECTION TYPE:  
(Select One)

☐ Construction / Workover  
☐ Plugging  
☐ Post-Closure

☐ Response to Complaint  
☒ Routine  
☐ Witness MIT

☐ Other

OBSERVED VALUES:

OPER ANAL - 1950

Tubing Gauge:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: U: <u>1941</u> / L: _____ psig Gauge Range: <u>DIGITAL</u> psig	Gauge Owner: <input type="checkbox"/> EPA <input type="checkbox"/> Operator
Annulus Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: <u>0</u> psig Gauge Range: <u>0-1000</u> psig	Gauge Owner: <input checked="" type="checkbox"/> EPA <input checked="" type="checkbox"/> Operator
Bradenhead Gauge:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: _____ psig Gauge Range: _____ psig	Gauge Owner: <input type="checkbox"/> EPA <input type="checkbox"/> Operator
Pump Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: _____ psig Gauge Range: _____ psig	Gauge Owner: <input type="checkbox"/> EPA <input type="checkbox"/> Operator
Operating Status: (Select One)	<input checked="" type="checkbox"/> Active <input type="checkbox"/> Being Reworked	<input type="checkbox"/> Not Injecting <input type="checkbox"/> Production	<input type="checkbox"/> Plugged and Abandoned <input type="checkbox"/> Under Construction

See page 2 for photos, comments, and site conditions.

Inspection Report For Well: UT20736 - 04416 (PAGE 2)

PHOTOGRAPHS:

☐ Yes  
☒ No

List of photos taken: \_\_\_\_\_


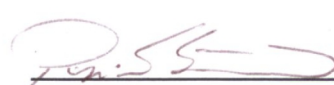
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments and site conditions observed during inspection: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

GPS: GPS File ID: \_\_\_\_\_

Signature of EPA Inspector(s):

☐ Data Entry

☐ Compliance Staff

☐ Hard Copy Filing

# NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII, 999 18TH STREET - SUITE 500  
DENVER, COLORADO 80202-2405

Date: 1/29/87

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq).

Hour: 10:00

Firm Name: PETROGLYDA OPERATING CO.

Firm Address: 4116 W. 3000 STATE LAND  
ROOSEVELT, UT 84066

## REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

## SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

KEN PHILLIPS

PHILIP STACKEE

Inspector's Name & Title (Print)

*[Signature]*

Inspector's Signature





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466

SEP 12 2005

ICIS Entered

Date 10-21-05

Initials NW

Ref: 8ENF-UFO

CERTIFIED MAIL 7003 2260 0001 7778 7759  
RETURN RECEIPT REQUESTED

Mr. Chad Stevenson  
Petroglyph Energy, Inc.  
P.O. Box 607  
Roosevelt, UT 84066

U2 Entered

Date 10-17-05

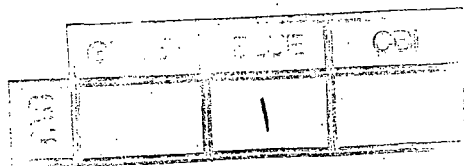
Initial NW

Re: Underground Injection Control (UIC)  
Notice of Violation:  
Failure to Maintain Pressure Gauges  
at 22 Injection Wells  
UIC Area Permit UT20736-00000  
Antelope Creek Field  
Duchesne County, Utah

Dear Mr. Stevenson:

During routine UIC inspections of Petroglyph Energy Inc.'s injection wells July 26 to 28, 2005, EPA determined that a total of 22 injection wells have tubing pressure gauges that fail to measure their respective tubing pressures with the degree of accuracy required under your UIC area permit. Part II(A)(4) of your permit specifically requires that gauges used to monitor the injection pressure at your permitted wells must be accurate to within 95% of the actual injection pressure. This is reiterated generally at Title 40 of the Code of Federal Regulations (40 CFR) Section 144.51(e).

During inspections, EPA uses its own pressure gauges as a means to independently verify gauge accuracy. EPA's gauges are either new, or their reliability is confirmed against a new gauge every 50 uses or so. In this case, EPA used a Wika brand 0-3000 psi 4-inch face gauge purchased in 2005 to conduct its tubing measurements. This test gauge's accuracy was verified against another Wika 0-3000 psi 4-inch face gauge new out of the box approximately every 50 readings. This process confirmed that, during these inspections, EPA's test gauge was not more than 5 psi different from a new gauge, or 0.17% of full face value. The attached list displays, for each well referenced, the tubing pressures observed on EPA's test gauge and that observed on each well's Petroglyph gauge. This list contains only those wells whose observed tubing pressure values differ from the EPA test gauge by more than 5%. Petroglyph's failure to maintain these gauge's accuracy is a violation of the above-referenced UIC permit and the regulations.



Printed on Recycled Paper

Within thirty (30) days of receipt of this letter please submit a letter describing what action you intend to take regarding the violations, including a time frame in which you anticipate the corrections to be completed.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 CFR Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by EPA, as codified at 40 CFR Part 22.

If you have any questions concerning this letter, you may contact Nathan Wiser at (303) 312-6211 or Ken Phillips at (303) 312-6405. Also, please direct all correspondence to the attention of Nathan Wiser at Mail Code 8ENF-UFO.

Sincerely,

*Elisabeth Evans*

Elisabeth Evans  
Director  
Technical Enforcement Program

Enclosure

cc: Maxine Natchees, Acting Chairperson  
Uintah & Ouray Business Committee  
P.O. Box 190  
Fort Duchesne, Utah 84026

Elaine Willie, Environmental Coordinator  
Ute Indian Tribe  
P.O. Box 460  
Fort Duchesne, Utah 84026

Mr. Steve Wall  
Petroglyph Energy, Inc.  
P.O. Box 607  
Roosevelt, UT 84066

<b>SENDER: COMPLETE THIS SECTION</b>		<b>COMPLETE THIS SECTION ON DELIVERY</b>	
1. Article Addressed to: Chad Stevenson Petroglyph Energy, Inc. P.O. Box 607 Roosevelt, UT 84066 ENF-UFO S 2003226000077787759		A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee <i>Elaine Willie</i> B. Received by (Printed Name) C. Date of Delivery <i>Elaine Willie</i> 9-14-05 D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:	
2. Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.		3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
1. Article Number (Transfer from service label) 2003 2260 0001 7778 7759		2. Article Number (Transfer from service label) 2003 2260 0001 7778 7759	
PS Form 3811, February 2004		Domestic Return Receipt 102595-02-M-1540	

## Attachment

## Petroglyph Energy Inc. Wells Whose Tubing Gauge was Greater than 5% Different

Well Name	EPA UIC Well Permit	EPA UIC Well No.	EPA Gauge	Petroglyph Gauge	Percent Difference
Ute Tribal 30-16	UT20736	4417	1650	300	-81.82
Ute Tribal 20-13	UT20736	4494	1730	1850	6.94
Ute Tribal 19-09	UT20736	4536	1690	1820	7.69
Ute Tribal 30-01	UT20736	4362	1750	1850	5.71
Ute Tribal 30-10	UT20736	4524	1075	1155	7.44
Ute Tribal 30-09	UT20736	4451	155	100	-35.48
Ute Tribal 29-06	UT20736	4416	1705	1800	5.57
Ute Tribal 29-01	UT20736	4619	1705	1820	6.74
Ute Tribal 29-14	UT20736	4641	1650	1800	9.09
Ute Tribal 21-15	UT20736	4522	1645	1780	8.21
Ute Tribal 16-12	UT20736	4553	1700	1850	8.82
Ute Tribal 21-06	UT20736	4388	1715	1820	6.12
Ute Tribal 21-11	UT20736	4365	1685	1845	9.50
Ute Tribal 16-11	UT20736	4393	1840	1950	5.98
Ute Tribal 16-08	UT20736	4414	1425	1540	8.07
Ute Tribal 16-02	UT20736	4412	960	1085	13.02
Ute Tribal 33-16	UT20736	4423	1800	1960	8.89
Ute Tribal 05-08	UT20736	4324	1860	2000	7.53
Ute Tribal 18-13	UT20736	4392	1855	2000	7.82
Ute Tribal 18-15	UT20736	4391	1735	1840	6.05
Ute Tribal 19-07	UT20736	4491	1840	1950	5.98
Ute Tribal 18-08	UT20736	4355	1935	2040	5.43

TAB	GREEN	BLUE
		4

# Inspection Report For Well: UT20736 - 04416

U.S. Environmental Protection Agency  
Underground Injection Control Program, 8ENF-T  
999 18th Street, Suite 300, Denver, CO 80202-2466  
This form was printed on 7/22/2005

INSPECTOR(S): Lead: Phillips, Kenneth Date: 7/28/2005  
Others: Moomey, Margaret Time: 11:23 am/pm  
 OPERATOR (only if different): \_\_\_\_\_  
 REPRESENTATIVE(S): CLIFF ATWOOD

PRE-INSPECTION REVIEW	
<b>Petroglyph Operating Company, Inc</b>	
<i>Well Name:</i>	Ute Tribal 29-06
<i>Well Type:</i>	Enhanced Recovery (2R)
<i>Operating Status:</i>	AC (ACTIVE) as of 12/31/2002
<i>Oil Field:</i>	Antelope Creek (Duchesne)
<i>Location:</i>	SEW S29 T5S R3W
<i>Indian Country:</i>	X, Uintah and Ouray
<i>Last Inspection:</i>	6/15/2004
<i>Last MIT:</i>	Pass 7/23/2001

U2 Entered  
 Date 8/16/05  
 Initial ZAP

ICIS Entered  
 Date 9/19/05  
 Allowable Inj Pressure: 2015 /  
 Annulus Pressure From Last MIT: 1080

BLACK = POSSIBLE VIOLATION

GREY = DATA MISSING

INSPECTION TYPE: (Select One)

<input type="checkbox"/> Construction / Workover	<input type="checkbox"/> Response to Complaint	<input type="checkbox"/> Other
<input type="checkbox"/> Plugging	<input checked="" type="checkbox"/> Routine	
<input type="checkbox"/> Post-Closure	<input type="checkbox"/> Witness MIT	

OBSERVED VALUES: OPERATOR'S TUBING GAUGE - 1800

Tubing Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: <u>U: 1705 / L:</u> psig Gauge Range: <u>0 - 3000</u> psig	Gauge Owner: <input checked="" type="checkbox"/> EPA <input type="checkbox"/> Operator
Annulus Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: <u>0</u> psig Gauge Range: <u>OPENED VALVE</u> psig	Gauge Owner: <input type="checkbox"/> EPA <input checked="" type="checkbox"/> Operator
Bradenhead Gauge:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pressure: _____ psig Gauge Range: _____ psig	Gauge Owner: <input type="checkbox"/> EPA <input type="checkbox"/> Operator
Pump Gauge:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Pressure: _____ psig Gauge Range: _____ psig	Gauge Owner: <input type="checkbox"/> EPA <input type="checkbox"/> Operator
Operating Status: (Select One)	<input type="checkbox"/> Active <input type="checkbox"/> Being Reworked <input checked="" type="checkbox"/> Not Injecting <input type="checkbox"/> Production <input type="checkbox"/> Plugged and Abandoned <input type="checkbox"/> Under Construction		

See page 2 for photos, comments, and site conditions.

Inspection Report For Well: UT20736 - 04416 (PAGE 2)

PHOTOGRAPHS:

☐ Yes  
☒ No

List of photos taken: \_\_\_\_\_


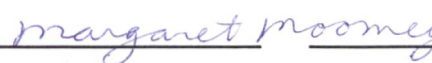
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments and site conditions observed during inspection: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

GPS: GPS File ID: \_\_\_\_\_

Signature of EPA Inspector(s):

☐ Data Entry

☐ Compliance Staff

☐ Hard Copy Filing

# NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII, 999 18TH STREET - SUITE 500  
DENVER, COLORADO 80202-2405

Date: 7/26/05

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 10:00

Firm Name: PETROGLYPH OPERATING, INC.

Firm Address: P.O. Box 607  
ROOSEVELT, UTAH 84066

## REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

## SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

KEN PHILLIPS / MARGARET MOORE  
Inspector's Name & Title (Print)

[Signature] / Margaret Moore  
Inspector's Signature



# Inspection Report For Well: UT20736 - 04416

U.S. Environmental Protection Agency  
Underground Injection Control Program, 8ENF-T  
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 4/16/2004

INSPECTOR(S): Lead: ~~Phillips, Kenneth~~ Wiser, Nathan  
Others: Craver, Al

Date: 6/15/2004

Time: 1:02 am / pm

OPERATOR (only if different): Chad Stevenson

REPRESENTATIVE(S): Clarice Gilbert, Tribe

## PRE-INSPECTION REVIEW

### Petroglyph Operating Company, Inc

Well Name: UTE TRIBAL #29-06  
Well Type: Enhanced Recovery (2R)  
Operating Status: ACTIVE (AC) as of 12/31/2002  
Oil Field: Antelope Creek (Duchesne)  
Location: SENW S29 T5S R3W  
Indian Country: X, Uintah and Ouray

ICIS Entered

Date 7-14-04

Initials [Signature]

Last Inspection: 6/17/2003  
Last MIT: Pass 7/23/2001

Allowable Inj Pressure: 2015 /  
Annulus Pressure From Last MIT: 1080

BLACK = POSSIBLE VIOLATION

GREY = DATA MISSING

### INSPECTION TYPE: (Select One)

☐ Construction / Workover  
☐ Plugging  
☐ Post-Closure

☐ Response to Complaint  
☒ Routine  
☐ Witness MIT

☐ Other

U2 Entered

Date 6-24-04

Initial NW

### OBSERVED VALUES:

Tubing Gauge: ☒ Yes Pressure: U: 1810 / L: psig Gauge Owner: ☒ EPA  
☐ No Gauge Range: 0 - 3000 psig ☐ Operator

Annulus Gauge: ☐ Yes Pressure: 0 psig Gauge Owner: ☐ EPA  
☒ No Gauge Range: opened annulus psig ☐ Operator

Bradenhead Gauge: ☐ Yes Pressure: \_\_\_\_\_ psig Gauge Owner: ☐ EPA  
☐ No Gauge Range: \_\_\_\_\_ psig ☐ Operator

Pump Gauge: ☐ Yes Pressure: \_\_\_\_\_ psig Gauge Owner: ☐ EPA  
☐ No Gauge Range: \_\_\_\_\_ psig ☐ Operator

Operating Status: ☒ Active ☐ Not Injecting ☐ Plugged and Abandoned  
(Select One) ☐ Being Reworked ☐ Production ☐ Under Construction

See page 2 for photos, comments, and site conditions.

TAB	GREEN	BLUE	CBI
		4	

Inspection Report For Well: UT20736 - 04416 (PAGE 2)

PHOTOGRAPHS:

☐ Yes  
☒ No

List of photos taken: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments and site conditions observed during inspection:

Site clean  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

GPS: GPS File ID: \_\_\_\_\_

Signature of EPA Inspector(s):

Nathan M. Wi R. Leaver

☐ Data Entry

☐ Compliance Staff

☐ Hard Copy Filing



# NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII, 999 18TH STREET - SUITE 500  
DENVER, COLORADO 80202-2405

Date: 6/15/04

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq).

Hour: 9:00 am

Firm Name: Petroglyph Operating Co.

Firm Address: 4116 W. 3000 S. Ioka Ln. P.O. Box 607  
Roosevelt, Utah 84066

## REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

## SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

Al Craver, SEE

Nathan Wiser, Environ. Scientist  
Inspector's Name & Title (Print)

Nathan M. Wiser  
Inspector's Signature

# NOTICE OF INSPECTION

UT 4416



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII, 999 18TH STREET - SUITE 500  
DENVER, COLORADO 80202-2405

Date: 6/17/03

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 9:30 AM

Firm Name: PETROGLYAN OPERATING CO.

Firm Address: P.O. Box 607  
ROSEBURY, UT 84066

## REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

## SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

AL CRAVER

KELLY HILLIARD

Inspector's Name & Title (Print)

*[Signature]*  
Inspector's Signature

# Inspection Report For Well: UT20736 - 04416

U.S. Environmental Protection Agency  
Underground Injection Control Program, 8ENF-T  
999 18th Street, Suite 300, Denver, CO 80202-2466

This form was printed on 6/13/2003

INSPECTOR(S): Lead: Phillips, Kenneth Date: 6/17/2003  
Others: Craver, Al, RUDY MYOBE Time: 4:15 am (pm)

OPERATOR (only if different):

REPRESENTATIVE(S): CHAD STEVENSON

PRE-INSPECTION REVIEW	
<b>Petroglyph Operating Company, Inc</b>	
Well Name:	UTE TRIBAL #29-06
Well Type:	Enhanced Recovery (2R)
Operating Status:	UNKNOWN
Oil Field:	Antelope Creek (Duchesne)
Location:	SENW S29 T5S R3W
Indian Country:	X, Uintah and Ouray
Last Inspection:	[INSP DATE]
Last MIT:	[MIT RESULT/DATE]
Allowable Inj Pressure:	2015 / V
Annulus Pressure From Last MIT:	[ANNULUS PRES]

BLACK = POSSIBLE VIOLATION

GREY = DATA MISSING

INSPECTION TYPE: (Select One)

<input type="checkbox"/> Construction / Workover	<input type="checkbox"/> Response to Complaint	<input type="checkbox"/> Other
<input type="checkbox"/> Plugging	<input checked="" type="checkbox"/> Routine	
<input type="checkbox"/> Post-Closure	<input type="checkbox"/> Witness MIT	

## OBSERVED VALUES:

Tubing Gauge:	<input checked="" type="checkbox"/> Yes	Pressure: U: 1900 L: _____ psig	Gauge Owner: <input checked="" type="checkbox"/> EPA
	<input type="checkbox"/> No	Gauge Range: 0-3000 psig	<input type="checkbox"/> Operator
Annulus Gauge:	<input checked="" type="checkbox"/> Yes	Pressure: 0 psig	Gauge Owner: <input checked="" type="checkbox"/> EPA
	<input type="checkbox"/> No	Gauge Range: 0-1000 psig	<input type="checkbox"/> Operator
Bradenhead Gauge:	<input type="checkbox"/> Yes	Pressure: _____ psig	Gauge Owner: <input type="checkbox"/> EPA
	<input type="checkbox"/> No	Gauge Range: _____ psig	<input type="checkbox"/> Operator
Pump Gauge:	<input type="checkbox"/> Yes	Pressure: _____ psig	Gauge Owner: <input type="checkbox"/> EPA
	<input type="checkbox"/> No	Gauge Range: _____ psig	<input type="checkbox"/> Operator
Operating Status: (Select One)	<input checked="" type="checkbox"/> Active	<input type="checkbox"/> Not Injecting	<input type="checkbox"/> Plugged and Abandoned
	<input type="checkbox"/> Being Reworked	<input type="checkbox"/> Production	<input type="checkbox"/> Under Construction

See page 2 for photos, comments, site conditions, and CATS reporting.

## Inspection Report For Well: UT20736 - 04416 (PAGE 2)

### PHOTOGRAPHS:

☐ Yes  
☒ No

List of photos taken: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Comments and site conditions observed during inspection: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

GPS: GPS File ID: \_\_\_\_\_

### CATS REPORTING:

Was a multi-media checklist used on this inspection? (MMI3) ☐ Yes ☐ No

Were other EPA programs involved in this inspection? ☐ Yes ☐ No

If YES, was this a "coordinated" multi-media inspection? (MMI1) ☐ Yes ☐ No

was this a "consolidated" multi-media inspection? (MMI2) ☐ Yes ☐ No

what programs participated? \_\_\_\_\_

Was this a State or Tribal "capacity building" activity? ☐ Yes ☐ No

If YES, who was it provided to? \_\_\_\_\_

If YES, what was provided? ☐ Training ☐ Regulatory determination (oral or written)  
☐ Assisted inspection ☐ Response to request for assistance

Other Participants (select as many as applicable):

☐ Tribe ☐ Federal Agency ☐ State ☐ Local ☐ Other (contractor)

Was a Violation found? ☐ Yes ☒ No

If NO, close pipeline? ☒ Yes ☐ No

If YES, what do you envision your next activity or activities might be? \_\_\_\_\_

If YES, when do you envision the above activity occurring? \_\_\_\_\_

Projected inspection report completion date: \_\_\_\_\_

Actual inspection report completion date: \_\_\_\_\_

Signature of EPA Inspector(s):



☐ Data Entry

☐ Compliance Staff

☐ Hard Copy Filing

# NOTICE OF INSPECTION

UT 4416



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII, 999 18TH STREET - SUITE 500  
DENVER, COLORADO 80202-2405

Date: 6/12/02

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 8:35

Firm Name: PETROLEUM OPERATING CO.

Firm Address: P.O. Box 607

ROOSEVELT, UT 84066

## REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

## SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

AL CRAVER

KEN PHILLIPS

Inspector's Name & Title (Print)

*[Signature]*  
Inspector's Signature



# Inspection Report For Well: UT20736-04416

U.S. Environmental Protection Agency  
Underground Injection Control Program, 8ENF-T  
999 18th Street, Suite 300, Denver, CO 80202-2466  
This form was printed on 6/5/02

INSPECTOR(S): Lead: Ken Phillips

Date: 6/12/2002

Others: Al Craver LEO TAPPOF

Time: 4:30 am / pm

OPERATOR (only if different):

REPRESENTATIVE(S): CHAD STEVENSON

## PRE-INSPECTION REVIEW

### PETROGLYPH OPERATING COMPANY, INC (PTG01), UNKNOWN, ID

Well Name: UTE TRIBAL #29-06  
Well Type: Enhanced Recovery (2R)  
Operating Status: ACTIVE (AC) as of 3/9/98  
Oil Field: Antelope Creek  
Location: SENW S29 T5S R3W  
Indian Country: Y, Ute Indian Tribe of Uintah Ouray Reservation  
Compliance Staff: Wiser, Nathan

Last Inspection: 11/15/00

Allowable Inj Pressure:

980

Last MIT: Pass 2/18/98

Annulus Pressure From Last MIT: UNKNOWN

BLACK = POSSIBLE VIOLATION

GREY = DATA MISSING

### INSPECTION TYPE:

(Select One)

☒ Compliance

☐ PA

☐ Witness MIT

☐ Construction

☐ Response to emergency or complaint

☐ Workover

☐ Enforcement

☐ Routine

☐ Other

### OBSERVED VALUES:

Tubing Gauge:

☐ Yes  
☐ No

Pressure: U: 1910 / L: \_\_\_\_\_ psig  
Gauge Range: 0-3000 psig

Gauge Owner: ☒ EPA  
☐ Operator

Annulus Gauge:

☐ Yes  
☐ No

Pressure: \_\_\_\_\_ psig  
Gauge Range: 0-1000 psig

Gauge Owner: ☒ EPA  
☐ Operator

Bradenhead Gauge:

☐ Yes  
☐ No

Pressure: \_\_\_\_\_ psig  
Gauge Range: \_\_\_\_\_ psig

Gauge Owner: ☐ EPA  
☐ Operator

Pump Gauge:

☐ Yes  
☐ No

Pressure: \_\_\_\_\_ psig  
Gauge Range: \_\_\_\_\_ psig

Gauge Owner: ☐ EPA  
☐ Operator

Operating Status:  
(Select One)

☒ Active  
☐ Being Reworked

☐ Not Injecting  
☐ Production

☐ Plugged and Abandoned  
☐ Under Construction

See page 2 for photos, comments, site conditions, and CATS reporting.

Inspection Report For Well: UT20736-04416 (PAGE 2)

PHOTOGRAPHS:

☐ Yes  
☒ No

List of photos taken: \_\_\_\_\_

Comments and site conditions observed during inspection: \_\_\_\_\_

GPS: GPS File ID: U061222B

CATS REPORTING:

Was a multi-media checklist used on this inspection? (MMI3) ☐ Yes ☒ No

Were other EPA programs involved in this inspection? ☐ Yes ☒ No

If YES, was this a "coordinated" multi-media inspection? (MMI1) ☐ Yes ☒ No

was this a "consolidated" multi-media inspection? (MMI2) ☐ Yes ☒ No

what programs participated? \_\_\_\_\_

Was this a State or Tribal "capacity building" activity? ☒ Yes ☐ No

If YES, who was it provided to? USEC

If YES, what was provided? ☒ Training ☐ Regulatory determination (oral or written)  
☒ Assisted inspection ☐ Response to request for assistance

Other Participants (select as many as applicable):

☒ Tribe ☐ Federal Agency ☐ State ☐ Local ☐ Other (contractor)

Was a Violation found? ☐ Yes ☒ No

If NO, close pipeline? ☒ Yes ☐ No

If YES, what do you envision your next activity or activities might be? \_\_\_\_\_

If YES, when do you envision the above activity occurring? \_\_\_\_\_

Projected inspection report completion date: \_\_\_\_\_

Actual inspection report completion date: \_\_\_\_\_

Signature of EPA Inspector(s):

[Signature]

[Signature]

☐ Data Entry

☐ Compliance Staff

☐ Hard Copy Filing





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466  
<http://www.epa.gov/region08>

*concurrent*

Ref: 8ENF-T

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Michael Safford  
Petroglyph Energy, Inc.  
P. O. Box 607  
Roosevelt, Utah 84066

Re: UNDERGROUND INJECTION CONTROL (UIC)  
Permission To Resume Injection  
Ute Tribal #29-06  
EPA ID# **UT2736-04416**  
Antelope Creek Field  
Duchesne County, Utah

Dear Mr. Safford:

On July 03, 2001, EPA received information from Petroglyph on the above referenced well concerning the workover and the follow up mechanical integrity test (MIT) conducted on July 03, 2001. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations (40 CFR) Section 144.51(q)(2), permission to resume injection is granted.

Under continuous service, the next MIT will be due on or before July 02, 2006. If the well is to be temporarily abandoned (TA'd), EPA should be notified. If the well is abandoned for more than two (2) years, it shall be plugged and abandoned in accordance with UIC regulations unless sufficient reasons are provided by Petroglyph to extend the TA status.

Failure to comply with UIC regulations found at 40 CFR, Parts 144 and 146 are violations of the Safe Drinking Water Act, 42 U.S.C.300h and subject to enforcement by EPA.

8ENF-T  
NW  
7-6-01

8ENF-T  
JWS  
for C. Mears  
7/6/01

8ENF-T  
7-5-01  
JWS



Printed on Recycled Paper

(2)

If you have any questions concerning this letter, you may contact Al Craver at (303) 312-7821. Also, please direct all correspondence to the attention of Al Craver at Mail Code 8ENF-T.

Sincerely,

Connally E. Mears, Director  
Technical Enforcement Program

cc: D Floyd Wopsock, Chairman  
Uintah and Ouray Business Committee

Elaine Willie, Environmental Coordinator  
Ute Indian Tribe

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> <li>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>■ Print your name and address on the reverse so that we can return the card to you.</li> <li>■ Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>		A. Received by (Please Print Clearly) B. Date of Delivery	
1. Article Addressed to: <b>JUL 9 2001</b> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Mr. Michael Safford  Petroglyph Energy, Inc.  P.O. Box 607  Roosevelt, UT 84066 </div>		C. Signature <i>[Signature]</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. Article Number (Copy from service label)		3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
PS Form 3811, July 1999 <b>B</b>		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	

102595-00-M-0952

**U.S. Postal Service**  
**CERTIFIED MAIL RECEIPT**  
*(Domestic Mail Only; No Insurance Coverage Provided)*

Postage \$

Certified Fee

Return Receipt Fee (Endorsement Re

Restricted Delivery (Endorsement Re

**Total Postage &**

Postmark Here

Sent To

Mr. Michael Safford  
Petroglyph Energy, Inc.  
P.O. Box 607  
Roosevelt, UT 84066

Street, Apt. No.; or P.O. Box No.

City, State, ZIP+4

PS Form 3800, May 2000

See Reverse for Instructions



bcc: Maple Barnard



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8  
999 18<sup>TH</sup> STREET - SUITE 300  
DENVER, CO 80202-2466  
<http://www.epa.gov/region08>

JUL - 9 2001

Ref: 8ENF-T

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Michael Safford  
Petroglyph Energy, Inc.  
P. O. Box 607  
Roosevelt, Utah 84066

Re: UNDERGROUND INJECTION CONTROL (UIC)  
Permission To Resume Injection  
Ute Tribal #29-06  
EPA ID# UT2736-04416  
Antelope Creek Field  
Duchesne County, Utah

Dear Mr. Safford:

On July 03, 2001, EPA received information from Petroglyph on the above referenced well concerning the workover and the follow up mechanical integrity test (MIT) conducted on July 03, 2001. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations (40 CFR) Section 144.51(q)(2), permission to resume injection is granted.

Under continuous service, the next MIT will be due on or before July 02, 2006. If the well is to be temporarily abandoned (TA'd), EPA should be notified. If the well is abandoned for more than two (2) years, it shall be plugged and abandoned in accordance with UIC regulations unless sufficient reasons are provided by Petroglyph to extend the TA status.

Failure to comply with UIC regulations found at 40 CFR, Parts 144 and 146 are violations of the Safe Drinking Water Act, 42 U.S.C.300h and subject to enforcement by EPA.



Printed on Recycled Paper

(2)

If you have any questions concerning this letter, you may contact Al Craver at (303) 312-7821. Also, please direct all correspondence to the attention of Al Craver at Mail Code 8ENF-T.

Sincerely,

*J N Dsg*

*for*

Connally E. Mears, Director  
Technical Enforcement Program

cc: D Floyd Wopsock, Chairman  
Uintah and Ouray Business Committee

Elaine Willie, Environmental Coordinator  
Ute Indian Tribe

bcc: Maple Barnard

## Inspection Report for Well UT2736-04416

UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION

This form was printed on 09/07/1999.

INSPECTOR(S): Ken Phillips, Bahram Jafari Date 10/13/99 Time 2:25 am/pm

OPERATOR Petroglyph REPRESENTATIVE Chad Stevenson

Petroglyph Operating Company, Inc., Hutchinson, KS Op ID PTG01  
 UTE TRIBAL #29-06 2R AC as of 03/09/1998  
 ANTELOPE CREEK SENW 29 05S 03W  
 Indian? Yes, Uintah-Ouray Compliance staff: Carson

## PRE-INSPECTION REVIEW

Last inspection: 05/13/1998 Last MIT: Passed 02/18/1998

Inj Pressure  
 Reported 2015  
 Allowable 2015

Wellhead equipment

INSPECTION TYPE ☒ Routine ☐ PA ☐ Compliance ☐ Construction  
☐ Workover ☐ Enforcement ☐ Response to emergency or complaint ☐ Other

## OBSERVED VALUES

Inj Pressure at wellhead 1775 psig Gauge range 0-3000 psig  
 Inj Pressure at pump psig Gauge range psig  
 Annulus Pressure 2880 psig Gauge range 0-2000 psig  
 Pressure Gauge Present ☒ Yes ☐ No

Injection Rate 316 BWPD Cumulative Volume 81155.6  
 Flow Meter Present ☒ Yes ☐ No Located at ☒ WELL ☐ PUMP  
 Meter Type Halliburton MC II  
☐ Non-resettable ☒ Resettable ☐ Rate Indicator ☐ Other

Operating Status ☒ Active ☐ TA ☐ PA ☐ Shut in ☐ Under ConstructionPHOTOGRAPHS? ☐ Yes ☒ No How the negatives are numbered:

See back of page for comments, site conditions, and compliance followup.



## UIC Inspection

Comments and site conditions observed during inspection: \_\_\_\_\_

Signature of EPA Inspector(s) \_\_\_\_\_

*[Handwritten Signature]*

### OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Observed Inj Pressure/Rate/Volume Within Allowed Limits Yes ☐ No ☐  
Acceptable fittings at site Yes ☐ No ☐

Transfer of ownership? ☐ Yes ☐ No OLD \_\_\_\_\_ NEW \_\_\_\_\_

Change in operating status (computer update) ☐ Yes \_\_\_\_\_ ☐ No \_\_\_\_\_

Possible violation ☐ Yes ☐ No - Followup Initiated ☐ Yes ☐ No \_\_\_\_\_

☐ Data Entry

☐ Compliance Staff

☐ 2nd Data Entry

☐ Hard Copy Filing

# NOTICE OF INSPECTION



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII, 999 18TH STREET - SUITE 500  
DENVER, COLORADO 80202-2405

Date: 10/13/99

Notice of inspection is hereby given according to Section 1445(b) of the Safe Drinking Water Act (42 U.S.C. §300f et seq.).

Hour: 9:15 AM

Firm Name: PETROGLYTH OPERATING COMPANY

Firm Address: 4116 WEST 3000 SOUTH  
ROOSEVELT, UTAH 84066

## REASON FOR INSPECTION:

For the purpose of inspecting records, files, papers, processes, controls and facilities, and obtaining samples to determine whether the person subject to an applicable underground injection control program has acted or is acting in compliance with the Safe Drinking Water Act and any applicable condition of permit or rule authorization.

## SECTION 1445(b) of the SAFE DRINKING WATER ACT is quoted below:

Section 1445(b)(1): Except as provided in Paragraph (2), the Administrator, or representatives of the Administrator duly designated by him, upon presenting appropriate credentials, and a written notice to any supplier of water or other person subject to (a), or person subject (A) a national primary drinking water regulation prescribed under Section 1412(B) an applicable Underground Injection Control Program, or (C) any requirement to monitor an unregulated contaminant pursuant to subsection (a), or person in charge of any of the property of such supplier or other person referred to in clause (A), (B), or (C), is authorized to enter any establishment, ... facility, or other property of such supplier or other person in order to determine whether such supplier or other person has acted or is acting in compliance with this title, including for this purpose, inspection, at reasonable times, of records, files, papers, processes, controls, and facilities, or in order to test any feature of a public water system, including its raw water source. The Administrator or the Comptroller General (or any representative designated by either) shall have access for the purpose of audit and examination to any records, reports, or information of a grantee which are required to be maintained under subsection (a) or which are pertinent to any financial assistance under this title.

KENNETH PHILLIPS  
Inspector's Name & Title (Print)

[Signature]  
Inspector's Signature

# Inspection Report for Well UT2736-04416

UNDERGROUND INJECTION CONTROL PROGRAM: Region VIII DIRECT IMPLEMENTATION

This form was printed on 05/06/1998.

INSPECTOR(S): Carol Bowden & Barbara Conklin Date 5/13/98 Time 10:00 am/pm

OPERATOR \_\_\_\_\_ REPRESENTATIVE Glenn

Petroglyph Operating Company, Inc., Hutchinson, KS Op ID PTG01  
UTE TRIBAL #29-06 2R AC as of 03/09/1998  
ANTELOPE CREEK SENW 29 05S 03W  
Indian? Yes, Uintah-Ouray Compliance staff: Carson

## PRE-INSPECTION REVIEW

Last inspection: \* / / \* Last MIT: Passed 02/18/1998

Inj Pressure  
Reported 0  
Allowable 2015

Wellhead equipment \_\_\_\_\_

INSPECTION TYPE ☒ Routine ☐ PA ☐ Compliance ☐ Construction  
☐ Workover ☐ Enforcement ☐ Response to emergency or complaint ☐ Other

## OBSERVED VALUES

Inj Pressure at wellhead 1520 1500 psig Gauge range 0-2000 (chart) (CO) 0-2000 (CO) psig  
Inj Pressure at pump 12 BLE psig Gauge range 0-2000 (chart) (CO) 0-2000 (CO) psig  
Annulus Pressure 10 psig Gauge range 0-2000 (CO) (chart) psig  
Pressure Gauge Present ☒ Yes ☐ No

Injection Rate 635.60 BWPD Cumulative Volume 43787.4  
Flow Meter Present ☐ Yes ☐ No Located at ☒ WELL ☐ PUMP  
Meter Type Halliburton MC-II

☐ Non-resettable ☒ Resettable ☐ Rate Indicator ☐ Other

Operating Status ☒ Active ☐ TA ☐ PA ☐ Shut in ☐ Under Construction

PHOTOGRAPHS? ☒ Yes ☐ No How the negatives are numbered: \_\_\_\_\_

15-16-17

# REVIEWED

BY: JWC

DATE: 6/17/98

See back of page for comments, site conditions, and compliance followup.



## UIC Inspection

Comments and site conditions observed during inspection:\_\_\_\_\_

Signature of EPA Inspector(s)

OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Observed Inj Pressure/Rate/Volume Within Allowed Limits Yes [ ] No

Acceptable fittings at site Yes [ ] No

Transfer of ownership?    ☐ Yes    ☐ No    OLD \_\_\_\_\_ NEW \_\_\_\_\_

Change in operating status (computer update)    ☐ Yes \_\_\_\_\_ ☐ No

Possible violation    ☐ Yes   ☐ No   -   Followup Initiated   ☐ Yes   ☐ No

## [ ] Data Entry

☐ Compliance Staff

[ ] 2nd Data Entry

☐ Hard Copy Filing

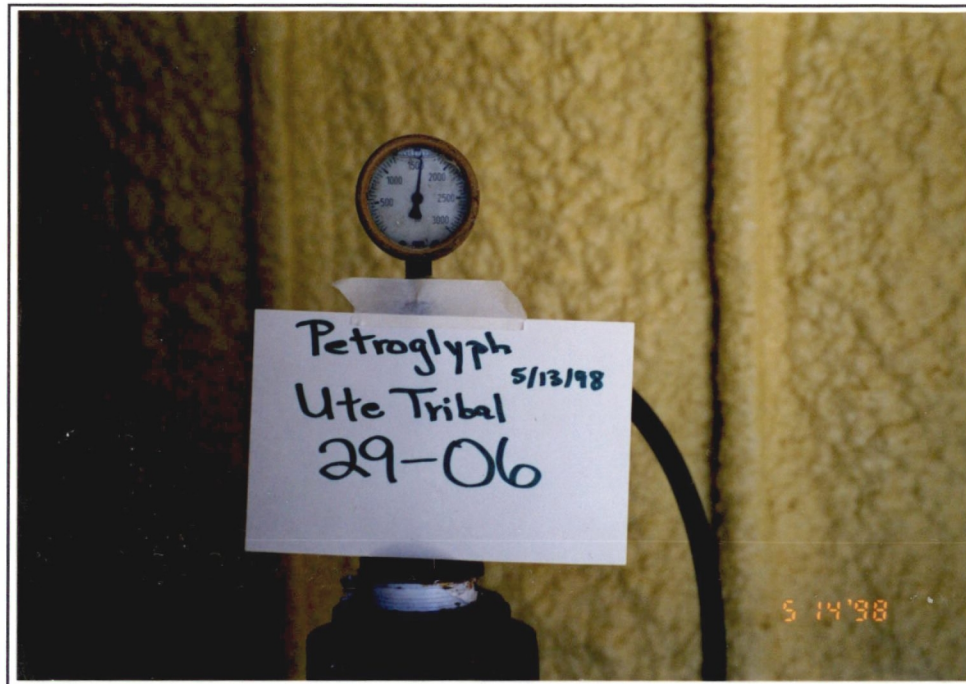
**Official Photograph  
U.S. Environmental Protection Agency  
Region VIII**



EPA ID Number:	UT2736-04416							
Well Name:	UTE TRIBAL #29-06							
Location:	SENW 29 05S 03W Uintah-Ouray							
Field:	ANTELOPE CREEK			County:			State:	UT
Photo Date:	05/13/98		Time:	10:00 a.m.		Negative Number:	15	
Weather:	(Sun) (Haze) (Cloudy) (Rain) (Snow)							
Photographer:	Carol Bowden							
Witness:	Barbara Conklin							
Camera:	Minolta			Film Type:	Kodak		ASA:	100
Processed By:	Foto Fast	Negative Location:	Binder for Negatives by Compliance Files					



**Official Photograph  
U.S. Environmental Protection Agency  
Region VIII**



EPA ID Number:	UT2736-04416				
Well Name:	UTE TRIBAL #29-06				
Location:	SENW 29 05S 03W      Uintah-Ouray				
Field:	ANTELOPE CREEK	County:		State:	UT
Photo Date:	05/13/98	Time:	10:00 a.m.	Negative Number:	16
Weather:	(Sun)      (Haze)      (Cloudy)      (Rain)      (Snow)				
Photographer:	Barbara Conklin				
Witness:	Carol Bowden				
Camera:	Minolta	Film Type:	Kodak	ASA:	100
Processed By:	Foto Fast	Negative Location:	Binder for Negatives by Compliance Files		

**Official Photograph  
U.S. Environmental Protection Agency  
Region VIII**



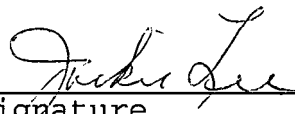
EPA ID Number:	UT2736-04416							
Well Name:	UTE TRIBAL #29-06							
Location:	SENW 29 05S 03W      Uintah-Ouray							
Field:	ANTELOPE CREEK			County:			State:	UT
Photo Date:	05/13/98		Time:	10:00 a.m.		Negative Number:	17	
Weather:	(Sun)      (Haze)      (Cloudy)      (Rain)      (Snow)							
Photographer:	Barbara Conklin							
Witness:	Carol Bowden							
Camera:	Minolta			Film Type:	Kodak		ASA:	100
Processed By:	Foto Fast	Negative Location:	Binder for Negatives by Compliance Files					

NOTE to FILE:

PETROGLYPH OPERATING CO., INC.

This is an existing UIC operator.

There are no informal compliance  
actions on record for this company.

  
\_\_\_\_\_  
Signature

12-18-97  
\_\_\_\_\_  
Date

UT2736-04416  
\_\_\_\_\_  
Permit Number





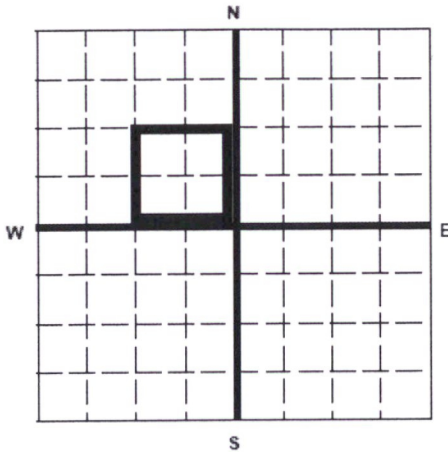
United States Environmental Protection Agency  
Washington, DC 20460

## ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee  
Petroglyph Operating Company, Inc. 2258  
P.O. Box 7608  
Boise, Idaho 83709

Name and Address of Surface Owner  
Ute Indian Tribe  
P.O. Box 70  
Ft. Duchesne, Utah, 84026

Locate Well and Outline Unit on  
Section Plat - 640 Acres



State  
Utah

County  
Duchesne

Permit Number  
UT2736-04416

Surface Location Description

1/4 of 1/4 of SE 1/4 of NW 1/4 of Section 29 Township 5S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1900 ft. from (N/S) N Line of quarter section  
and 1980 ft. from (E/W) W Line of quarter section.

WELL ACTIVITY

☐ Brine Disposal  
☒ Enhanced Recovery  
☐ Hydrocarbon Storage

TYPE OF PERMIT

☐ Individual  
☒ Area  
Number of Wells 111

Lease Name Ute Indian Tribe

Well Number UTE TRIBAL 29-06

INJECTION PRESSURE				TOTAL VOLUME INJECTED		TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	16	1767	1791	400		0	0
February	16	1846	1867	649		0	0
March	16	1856	1867	657		0	0
April	16	1820	1839	459		0	0
May	16	1837	1851	613		0	0
June	16	1811	1859	525		0	0
July	16	1820	1831	556		0	0
August	16	1805	1839	542		0	0
September	16	1786	1810	497		0	0
October	16	1816	1831	618		0	0
November	16	1747	1792	311		0	0
December	16	1780	1800	548		0	0

### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

*Chad Stevenson* U2 Entered

Date Signed

03/21/2017

Date

Initial

4/6/17

JB



Units of Measurement: **Standard**

## Water Analysis Report

Production Company: **PETROGLYPH OPERATING CO INC - EBUS**Sales Rep: **James Patry**Well Name: **UTE TRIBAL 29-06 INJ, DUCHESNE**Lab Tech: **Kaitlyn Natelli**Sample Point: **Well Head**Sample Date: **1/6/2017**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)Sample ID: **WA-345315**

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations	mg/L	Anions	mg/L
Test Date:	1/25/2017	Sodium (Na):	3977.76	Chloride (Cl):	5000.00
System Temperature 1 (°F):	300	Potassium (K):	27.65	Sulfate (SO <sub>4</sub> ):	70.00
System Pressure 1 (psig):	2000	Magnesium (Mg):	9.60	Bicarbonate (HCO <sub>3</sub> ):	3050.00
System Temperature 2 (°F):	130	Calcium (Ca):	21.68	Carbonate (CO <sub>3</sub> ):	
System Pressure 2 (psig):	50	Strontium (Sr):	6.17	Hydroxide (HO):	
Calculated Density (g/ml):	1.0061	Barium (Ba):	13.10	Acetic Acid (CH <sub>3</sub> COO)	
pH:	9.40	Iron (Fe):	273.98	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
Calculated TDS (mg/L):	12698.81	Zinc (Zn):	219.03	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
CO <sub>2</sub> in Gas (%):		Lead (Pb):	0.00	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
Dissolved CO <sub>2</sub> (mg/L):	0.00	Ammonia (NH <sub>3</sub> ):		Fluoride (F):	
H <sub>2</sub> S in Gas (%):		Manganese (Mn):	0.81	Bromine (Br):	
H <sub>2</sub> S in Water (mg/L):	40.00	Aluminum (Al):	0.29	Silica (SiO <sub>2</sub> ):	29.03
Tot. Suspended Solids (mg/L):		Lithium (Li):	2.89	Calcium Carbonate (CaCO <sub>3</sub> ):	
Corrosivity (Langlier Sat. Index):	0.00	Boron (B):	5.71	Phosphates (PO <sub>4</sub> ):	18.82
Alkalinity:		Silicon (Si):	13.57	Oxygen (O <sub>2</sub> ):	

## Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	2.10	18.82	1.14	7.15	6.68	36.17	5.09	199.22	0.00	0.00	0.00	0.00	0.00	0.00	14.33	40.09
149.00	267.00	2.15	18.84	1.04	6.99	6.61	36.17	5.18	199.22	0.00	0.00	0.00	0.00	0.00	0.00	14.06	40.09
168.00	483.00	2.21	18.85	0.96	6.84	6.57	36.17	5.26	199.22	0.00	0.00	0.00	0.00	0.00	0.00	13.82	40.09
187.00	700.00	2.28	18.87	0.90	6.70	6.54	36.17	5.33	199.22	0.00	0.00	0.00	0.00	0.00	0.00	13.60	40.09
206.00	917.00	2.35	18.89	0.86	6.59	6.54	36.17	5.40	199.22	0.00	0.00	0.00	0.00	0.00	0.00	13.41	40.09
224.00	1133.00	2.43	18.90	0.83	6.51	6.55	36.17	5.47	199.22	0.00	0.00	0.00	0.00	0.00	0.00	13.24	40.09
243.00	1350.00	2.52	18.92	0.81	6.46	6.57	36.17	5.52	199.22	0.00	0.00	0.00	0.00	0.00	0.00	13.09	40.09
262.00	1567.00	2.61	18.93	0.81	6.44	6.61	36.17	5.58	199.22	0.00	0.00	0.00	0.00	0.00	0.00	12.95	40.09
281.00	1783.00	2.71	18.94	0.81	6.44	6.65	36.17	5.62	199.22	0.00	0.00	0.00	0.00	0.00	0.00	12.82	40.09
300.00	2000.00	2.81	18.94	0.82	6.46	6.71	36.17	5.66	199.22	0.00	0.00	0.00	0.00	0.00	0.00	12.71	40.09



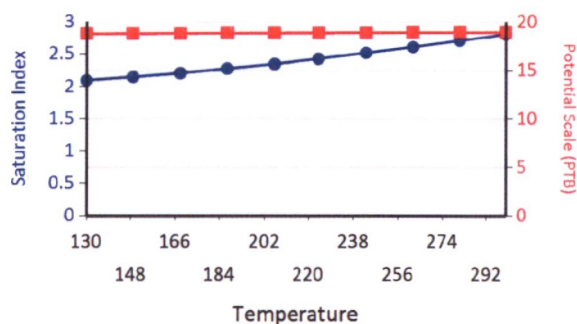
## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> ~0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
130.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	4.84	147.26	0.00	0.00	8.40	19.15	4.98	29.97	20.05	67.34
149.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	5.04	147.26	0.00	0.00	9.04	19.17	5.30	29.97	20.40	67.34
168.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	5.22	147.26	0.00	0.00	9.66	19.17	5.62	29.98	20.76	67.34
187.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	5.37	147.26	0.00	0.00	10.28	19.18	5.94	29.98	21.13	67.34
206.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	5.51	147.26	0.00	0.00	10.87	19.18	6.25	29.98	21.50	67.34
224.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	5.64	147.26	0.00	0.00	11.45	19.18	6.56	29.98	21.87	67.34
243.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	5.74	147.26	0.00	0.00	12.00	19.18	6.85	29.98	22.22	67.34
262.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	5.83	147.26	0.00	0.00	12.52	19.18	7.14	29.98	22.57	67.34
281.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	5.90	147.26	0.00	0.00	13.02	19.18	7.42	29.98	22.89	67.34
300.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	5.96	147.26	0.00	0.00	13.48	19.18	7.68	29.98	23.20	67.34

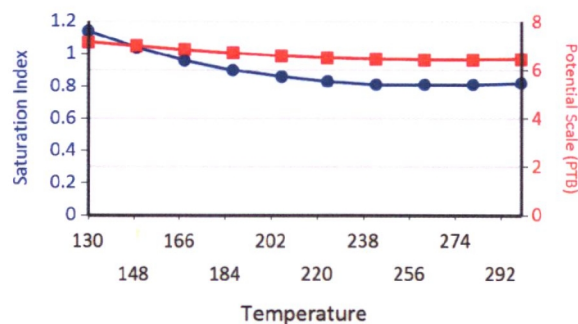
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

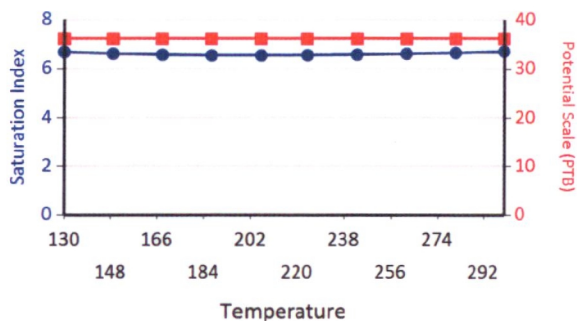
Calcium Carbonate



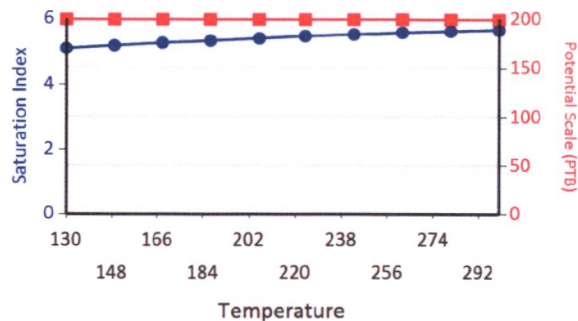
Barium Sulfate



Iron Sulfide

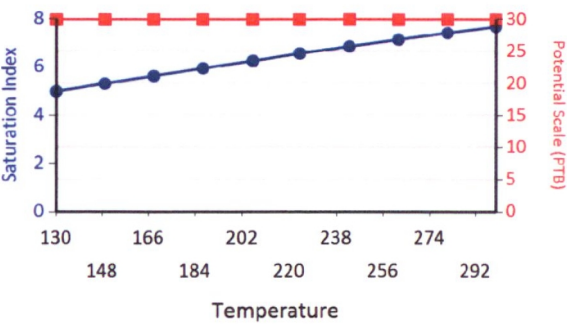


Iron Carbonate

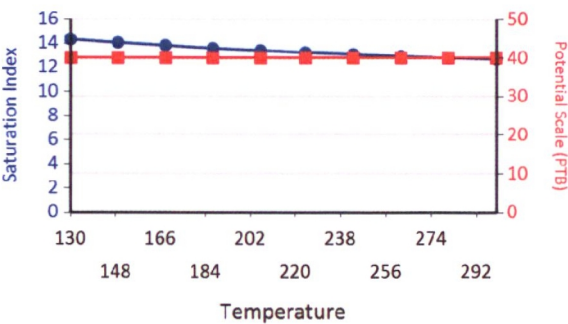


Water Analysis Report

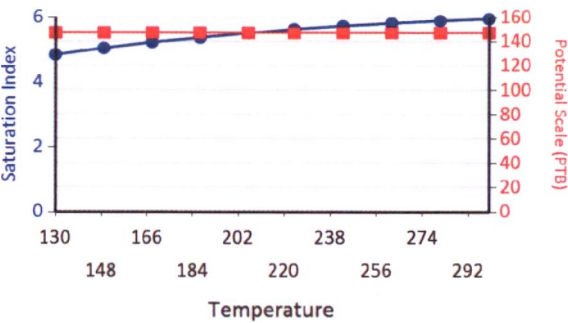
Ca Mg Silicate



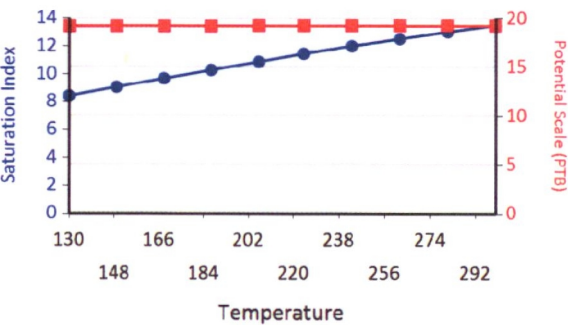
Zinc Sulfide



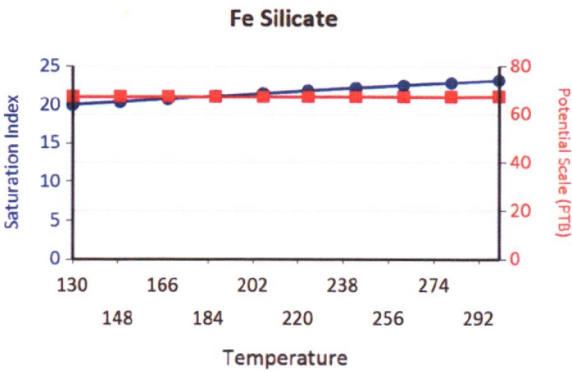
Zinc Carbonate



Mg Silicate



Water Analysis Report





May, 2017

Gary Wang or Don Breffle  
Underground Injection Control Enforcement  
U.S. Environmental Protection Agency  
Mail Code: 8ENF-UFO  
US EPA Region 8  
1595 Wyncoop Street  
Denver, CO 80202-1129

UT 20736-04416

RE: Mechanical Integrity Test

Mr. Wang/ Mr. Breffle:

Please find enclosed a Mechanical Integrity Test for the Ute Tribal 29-06. This follows our earlier notice on March 24, 2017, of a loss of mechanical integrity on this well.

If any questions, please contact Les Farnsworth at (435) 609-6976.

Best Regards,

Nicole Colby  
Manager, Land & Regulatory Compliance

U2 Entered

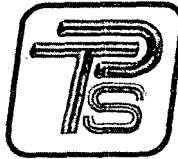
Date 6/7/17

Initial JB

	GREEN	BLUE	CBI
TAB		2	

PETROGLYPH ENERGY, INC.





SINCE 1918

# TEXAS PIPE & SUPPLY

Hole # 39 Dept 1258  
XO PKR & Replace #39

NI Test c1000 Due To Squeeze  
Port # 2966-2988

29-06

## "Carbon & Stainless"

HOUSTON: 713-799-9235 • DALLAS: 972-407-0540

CORPUS CHRISTI  
361-241-5381

DENVER  
303-286-7676

MORGAN CITY  
985-631-0318

MOBILE  
251-304-0051

MIDDLESEX  
732-560-9650

HAMMOND  
219-228-2050

LAKELAND  
863-669-9493

CHARLOTTE  
704-697-6800

# Mechanical Integrity Test Tubing/Casing Annulus Pressure Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
1595 Wynkoop Street, Denver, CO 80202

EPA Witness: \_\_\_\_\_ Date: 4/28/17  
Test conducted by: CHARL STEVENSON  
Others present: \_\_\_\_\_

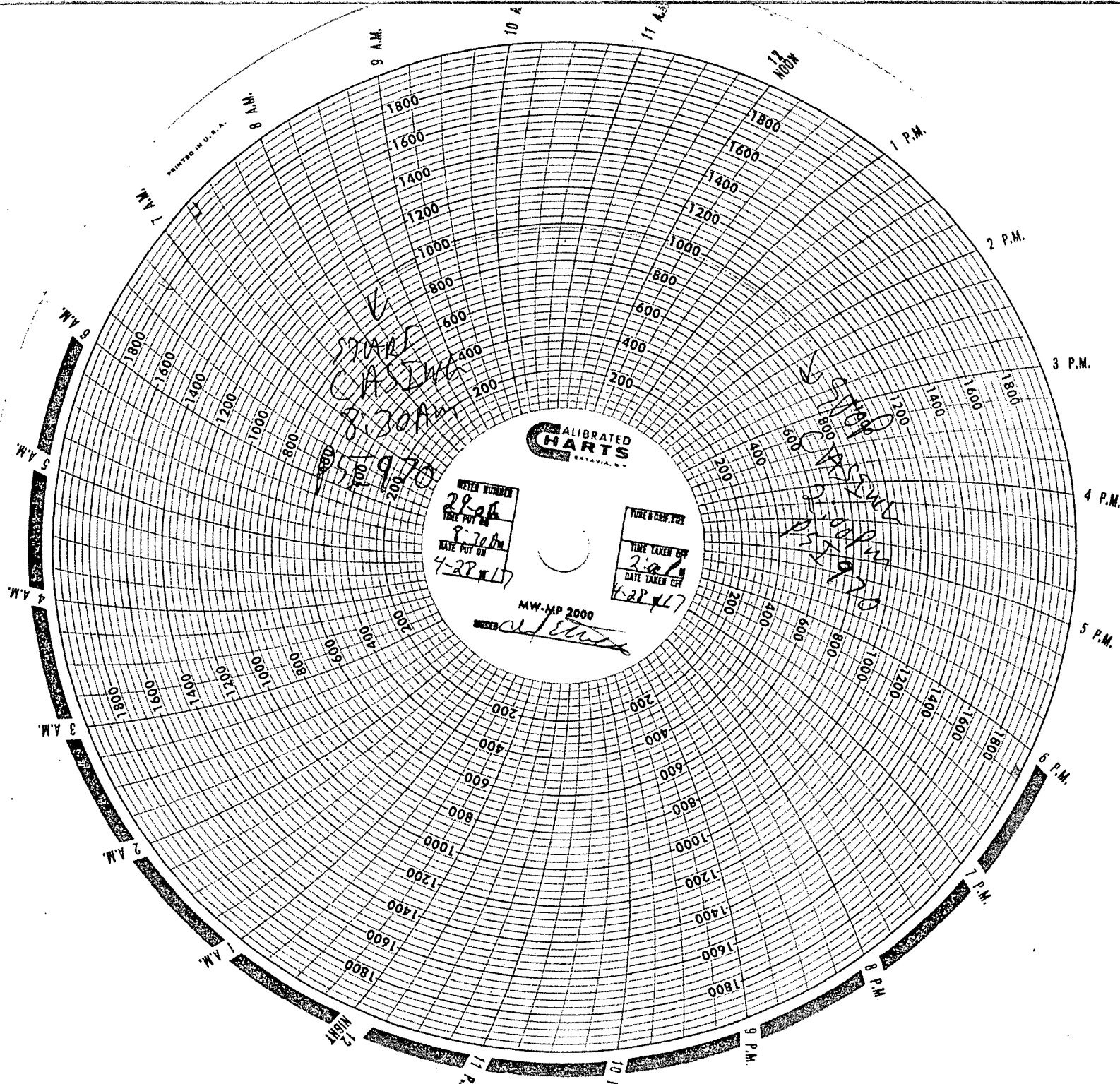
Well Name: <u>29-06</u>	Type: ER SWD	Status: AC TA UC
Field: <u>ANTELOPE CREEK</u>		
Location: <u>29-06</u> Sec: <u>   </u> T <u>   </u> N/S R <u>   </u> E/W County: <u>DUCHESSNE</u> State: <u>WY</u>		
Operator: <u>PETROGLYPH ENERGY</u>		
Last MIT: <u>   </u> / <u>   </u> / <u>   </u>		Maximum Allowable Pressure: <u>   </u> PSIG

Regularly scheduled test? ☐ Yes ☐ No  
Initial test for permit? ☐ Yes ☐ No  
Test after well rework? ☒ Yes ☐ No

Well injecting during test? If Yes, rate: \_\_\_\_\_ bpd  
Pre-test annulus pressure: \_\_\_\_\_ psig

MIT DATA TABLE		Test #1	Test #2	Test #3
<b>TUBING</b>		<b>PRESSURE RECORD</b>		
Initial Pressure		305 psig	psig	psig
End of test pressure		305 psig	psig	psig
<b>CASING / TUBING ANNULUS</b>		<b>PRESSURE RECORD</b>		
0 minutes	970	psig	psig	psig
5 minutes	970	psig	psig	psig
10 minutes	970	psig	psig	psig
15 minutes	970	psig	psig	psig
20 minutes	970	psig	psig	psig
25 minutes	970	psig	psig	psig
30 minutes	970	psig	psig	psig
4 1/2 Hours minutes	970	psig	psig	psig
_____ minutes		psig	psig	psig
<b>RESULT</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass <input type="checkbox"/> Fail			

Does the annulus pressure build back up after the test? If Yes, \_\_\_\_\_ psig.





**RECEIVED**

**APR 04 2017**

Office of Enforcement, Compliance  
and Environmental Justice (Water)

March 24, 2017

Don Breffle  
Mail Code: 8ENF-UFO  
US EPA Region 8  
1595 Wyncoop Street  
Denver, CO 80202-1129

RE: Underground Injection Control (UIC)  
Notice of Violation  
Loss of Mechanical Integrity  
Well No. Ute Tribal 29-06  
Antelope Creek Oil Field  
Duchesne County, Utah

UT 20736-04416

Mr. Breffle:

Please be advised that on March 23, 2017, Petroglyph Operating lost Mechanical Integrity on the Ute Tribal 29-06 Injection Well. My direct number is (208) 685-9711 for more information, if needed. Alternately, the direct number for District Manager Les Farnsworth is (435) 609-6976.

Further details to follow.

Sincerely,  
Petroglyph Operating Company, Inc.

Nicole Colby  
Manager, Land & Regulatory Compliance

	GREEN	BLUE	CBI
TAB		2	

**PETROGLYPH ENERGY, INC.**





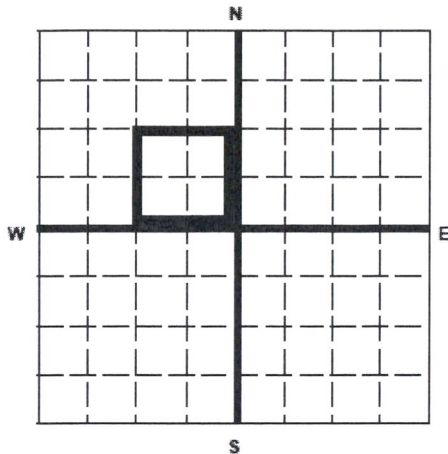
United States Environmental Protection Agency  
Washington, DC 20460

## ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee  
Petroglyph Operating Company, Inc. 2258  
P.O. Box 7608  
Boise, Idaho 83709

Name and Address of Surface Owner  
Ute Indian Tribe  
P.O. Box 70  
Ft. Duchesne, Utah, 84026

Locate Well and Outline Unit on  
Section Plat - 640 Acres



State  
Utah

County  
Duchesne

Permit Number  
UT2736-0443# 04416

Surface Location Description

1/4 of 1/4 of SE 1/4 of NW 1/4 of Section 29 Township 5S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1900 ft. from (N/S) N Line of quarter section  
and 1980 ft. from (E/W) W Line of quarter section.

U2 Entered

Date 3/2/16

Initial JS

WELL ACTIVITY

☐ Brine Disposal  
☒ Enhanced Recovery  
☐ Hydrocarbon Storage

TYPE OF PERMIT

☐ Individual  
☒ Area

Number of Wells 111

Lease Name Ute Indian Tribe

Well Number UTE TRIBAL 29-06

### INJECTION PRESSURE

### TOTAL VOLUME INJECTED

### TUBING - CASING ANNULUS PRESSURE (OPTIONAL MONITORING)

MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	15	1775	1807	384		0	0
February	15	1817	1859	539		0	0
March	15	1841	1865	629		0	0
April	15	1816	1865	516		0	0
May	15	1829	1845	552		0	0
June	15	1835	1867	590		0	0
July	15	1799	1870	617		0	0
August	15	1838	1848	544		0	0
September	15	1819	1856	503		0	0
October	15	1831	1831	610		0	0
November	15	1827	1840	590		0	0
December	15	1822	1830	562		0	0

### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

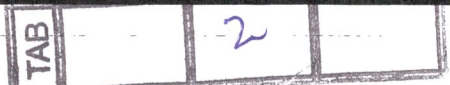
Chad Stevenson, Water Facilities Supervisor

Signature

*Chad Stevenson*

Date Signed

02/08/2016





Units of Measurement: **Standard**

## Water Analysis Report

Production Company: **PETROGLYPH OPERATING CO INC - EBUS**Sales Rep: **James Patry**Well Name: **UTE TRIBAL 29-06 INJ, DUCHESNE**Lab Tech: **Michele Pike**Sample Point: **Well Head**Sample Date: **1/6/2016**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)Sample ID: **WA-327713**

Sample Specifics		Analysis @ Properties in Sample Specifics			
		Cations	mg/L	Anions	mg/L
Test Date:	1/13/2016	Sodium (Na):	3228.87	Chloride (Cl):	4000.00
System Temperature 1 (°F):	60	Potassium (K):	26.68	Sulfate (SO <sub>4</sub> ):	180.00
System Pressure 1 (psig):	2000	Magnesium (Mg):	41.63	Bicarbonate (HCO <sub>3</sub> ):	2074.00
System Temperature 2 (°F):	180	Calcium (Ca):	105.61	Carbonate (CO <sub>3</sub> ):	
System Pressure 2 (psig):	50	Strontium (Sr):	6.37	Acetic Acid (CH <sub>3</sub> COO)	
Calculated Density (g/ml):	1.0040	Barium (Ba):	6.60	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
pH:	8.30	Iron (Fe):	7.18	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
Calculated TDS (mg/L):	9708.24	Zinc (Zn):	7.72	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
CO <sub>2</sub> in Gas (%):		Lead (Pb):	0.05	Fluoride (F):	
Dissolved CO <sub>2</sub> (mg/L):	0.00	Ammonia NH <sub>3</sub> :		Bromine (Br):	
H <sub>2</sub> S in Gas (%):		Manganese (Mn):	0.06	Silica (SiO <sub>2</sub> ):	23.47
H <sub>2</sub> S in Water (mg/L):	5.00	Aluminum (Al):	0.06	Calcium Carbonate (CaCO <sub>3</sub> ):	
Tot. Suspended Solids (mg/L):		Lithium (Li):	2.11	Phosphates (PO <sub>4</sub> ):	9.93
Corrosivity (Langlier Sat. Indx)	0.00	Boron (B):	3.28	Oxygen (O <sub>2</sub> ):	
Alkalinity:		Silicon (Si):	10.97		

## Notes:

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	2.11	88.33	1.16	3.65	3.39	3.95	3.15	5.22	0.00	0.00	0.00	0.00	0.00	0.00	10.41	4.03
167.00	267.00	2.02	86.63	1.19	3.67	3.36	3.95	3.04	5.22	0.00	0.00	0.00	0.00	0.00	0.00	10.51	4.03
153.00	483.00	1.94	85.22	1.22	3.69	3.36	3.95	2.94	5.22	0.00	0.00	0.00	0.00	0.00	0.00	10.65	4.03
140.00	700.00	1.87	83.63	1.26	3.71	3.37	3.95	2.84	5.21	0.00	0.00	0.00	0.00	0.00	0.00	10.80	4.03
127.00	917.00	1.80	81.86	1.32	3.74	3.39	3.95	2.74	5.21	0.00	0.00	0.00	0.00	0.00	0.00	10.97	4.03
113.00	1133.00	1.74	79.95	1.38	3.76	3.43	3.95	2.64	5.21	0.00	0.00	0.00	0.00	0.00	0.00	11.16	4.03
100.00	1350.00	1.69	77.94	1.46	3.79	3.48	3.95	2.54	5.20	0.00	0.00	0.00	0.00	0.00	0.00	11.36	4.03
87.00	1567.00	1.64	75.90	1.56	3.82	3.55	3.95	2.45	5.20	0.00	0.00	0.00	0.00	0.00	0.00	11.58	4.03
73.00	1783.00	1.59	73.87	1.67	3.85	3.64	3.95	2.35	5.19	0.00	0.00	0.00	0.00	0.00	0.00	11.83	4.03
60.00	2000.00	1.55	71.92	1.80	3.87	3.74	3.95	2.26	5.19	0.00	0.00	0.00	0.00	0.00	0.00	12.10	4.03

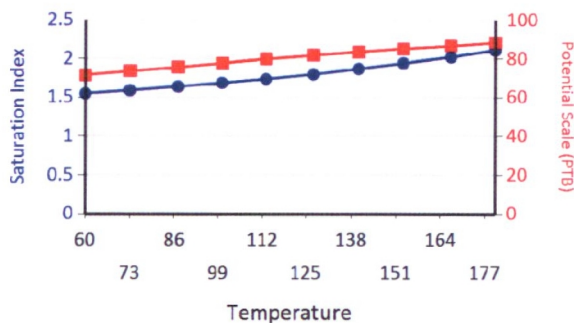
## Water Analysis Report

Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> ~0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
180.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	3.04	5.18	9.50	0.02	6.58	52.92	3.73	28.32	11.63	5.58
167.00	267.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87	5.18	9.71	0.02	5.86	46.67	3.30	25.83	11.07	5.58
153.00	483.00	0.00	0.00	0.00	0.00	0.00	0.00	2.72	5.18	9.96	0.02	5.23	41.43	2.93	23.51	10.61	5.58
140.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	2.55	5.17	10.23	0.02	4.59	35.93	2.57	20.87	10.17	5.58
127.00	917.00	0.00	0.00	0.00	0.00	0.00	0.00	2.38	5.17	10.52	0.02	3.96	30.44	2.21	18.06	9.73	5.58
113.00	1133.00	0.00	0.00	0.00	0.00	0.00	0.00	2.19	5.15	10.85	0.02	3.32	25.14	1.85	15.20	9.30	5.58
100.00	1350.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	5.13	11.20	0.02	2.68	20.10	1.49	12.34	8.88	5.57
87.00	1567.00	0.00	0.00	0.00	0.00	0.00	0.00	1.79	5.10	11.58	0.02	2.04	15.29	1.14	9.53	8.46	5.57
73.00	1783.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58	5.04	12.00	0.02	1.40	10.61	0.79	6.73	8.06	5.57
60.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	4.93	12.45	0.02	0.75	5.91	0.44	3.92	7.67	5.56

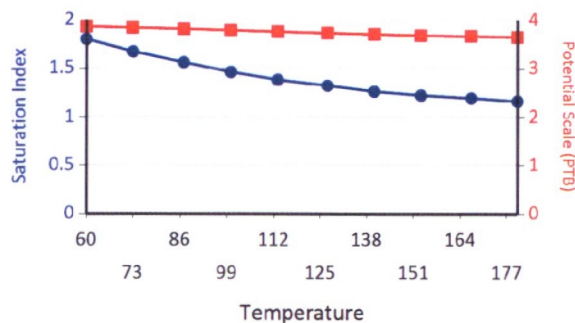
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

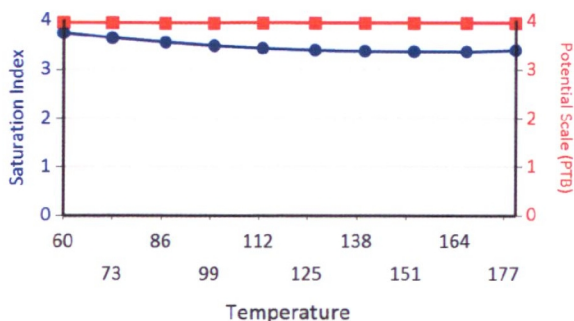
Calcium Carbonate



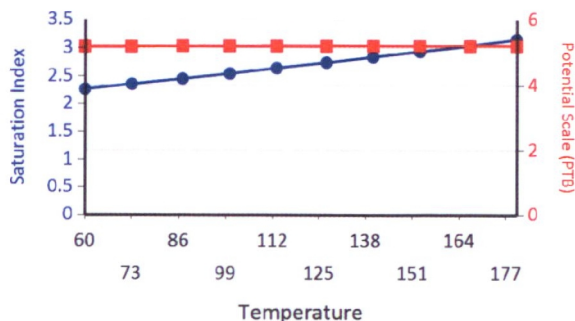
Barium Sulfate



Iron Sulfide



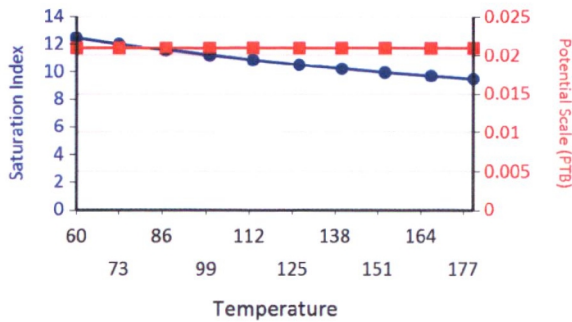
Iron Carbonate



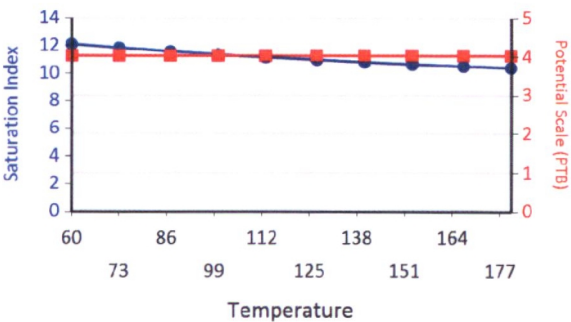


Water Analysis Report

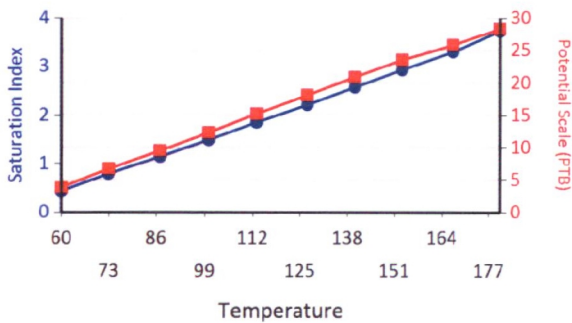
Lead Sulfide



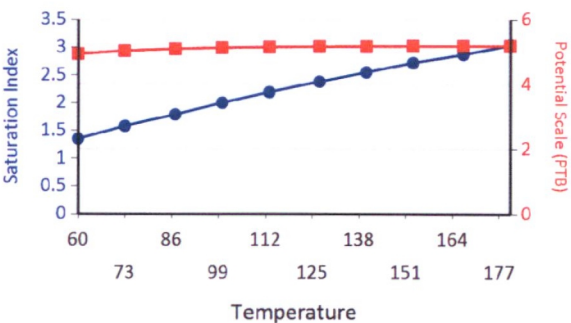
Zinc Sulfide



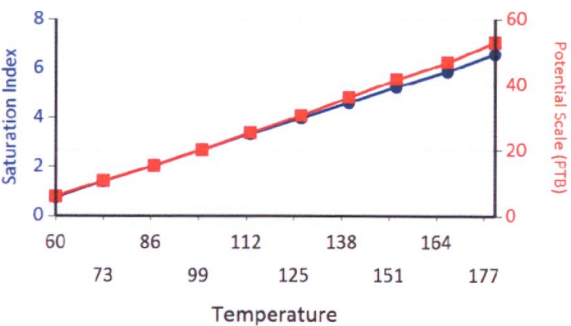
Ca Mg Silicate



Zinc Carbonate

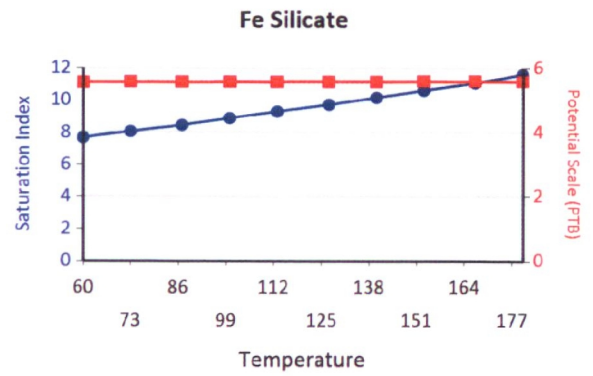


Mg Silicate





Water Analysis Report





**RECEIVED**

**JUL 12 2016**

Office of Enforcement, Compliance  
and Environmental Justice (UFO)

July 6, 2016

Gary Wang  
Mail Code: 8ENF-UFO  
US EPA Region 8  
1595 Wyncoop Street  
Denver, CO 80202-1129

RE: EPA AREA PERMIT NO. UT2736-00000  
Mechanical Integrity Tests

	GREEN	BLUE	CBI
TAB		2	

Mr. Wang:

Please find enclosed the Mechanical Integrity Tests for the following wells:

- Ute Tribal 07-16
- Ute Tribal 18-12
- Ute Tribal 29-06
- Ute Tribal 29-07

If any questions, please reach me at (208) 685-9711.

Best Regards,

Nicole Colby  
Manager, Land & Regulatory Compliance

Encl: test results

# Mechanical Integrity Test Tubing/Casing Annulus Pressure Test

U.S. Environmental Protection Agency  
Underground Injection Control Program  
1595 Wynkoop Street, Denver, CO 80202

EPA Witness: \_\_\_\_\_ Date: 6, 22, 16  
Test conducted by: CHAD STEVENSON  
Others present: \_\_\_\_\_

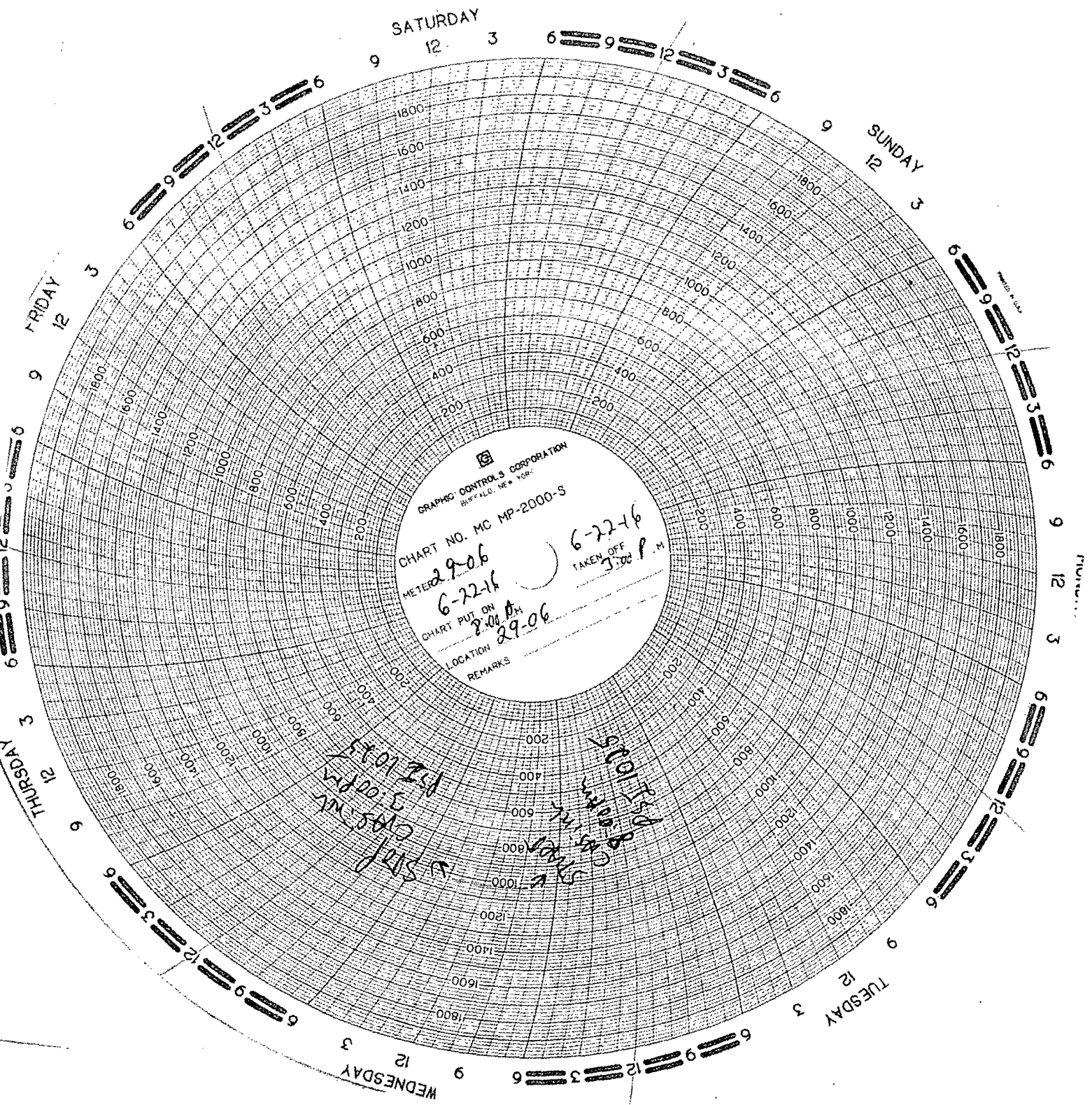
Well Name: <u>29-06</u>	Type: ER SWD	Status: AC TA UC
Field: <u>ANTELOPE CREEK</u>		
Location: <u>29-06</u> Sec: _____ T _____ N/S R _____ E/W County: <u>DUCHESSNE</u> State: <u>WY</u>		
Operator: <u>PETROLEUM ENERGY</u>		
Last MIT: _____		Maximum Allowable Pressure: _____ PSIG

Regularly scheduled test? ☒ Yes ☐ No  
Initial test for permit? ☐ Yes ☐ No  
Test after well rework? ☐ Yes ☐ No

Well injecting during test? If Yes, rate: 28 bpd  
Pre-test annulus pressure: \_\_\_\_\_ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
<b>TUBING</b>	<b>PRESSURE RECORD</b>		
Initial Pressure	1865 psig	psig	psig
End of test pressure	1865 psig	psig	psig
<b>CASING / TUBING ANNULUS</b>	<b>PRESSURE RECORD</b>		
0 minutes	1025 psig	psig	psig
5 minutes	1025 psig	psig	psig
10 minutes	1025 psig	psig	psig
15 minutes	1025 psig	psig	psig
20 minutes	1025 psig	psig	psig
25 minutes	1025 psig	psig	psig
30 minutes	1025 psig	psig	psig
7 Hours _____ minutes	1025 psig	psig	psig
_____ minutes	psig	psig	psig
<b>RESULT</b>	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail	[ ] Pass [ ] Fail

Does the annulus pressure build back up after the test? If Yes, \_\_\_\_\_ psig.



SATURDAY  
12 3 6 9 12 3 6

SUNDAY  
12 3 6 9 12 3 6

MONDAY  
12 3 6 9 12 3 6

TUESDAY  
12 3 6 9 12 3 6

WEDNESDAY  
12 3 6 9 12 3 6

FRIDAY  
12 3 6 9 12 3 6

THURSDAY  
12 3 6 9 12 3 6





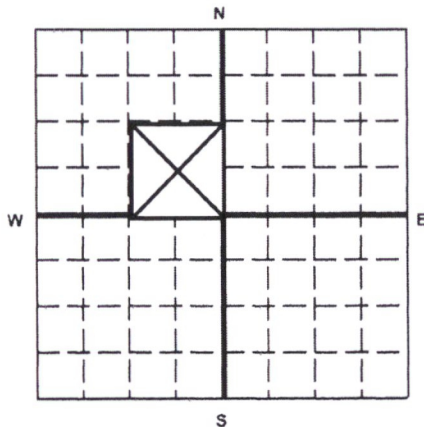
United States Environmental Protection Agency  
Washington, DC 20460

## ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee  
Petroglyph Operating Company, Inc. 2258  
P.O. Box 7608  
Boise, Idaho 83709

Name and Address of Surface Owner  
Ute Indian Tribe  
P.O. Box 70  
Ft. Duchesne, Utah 84026

Locate Well and Outline Unit on  
Section Plat - 640 Acres



State  
Utah

County  
Duchesne

Permit Number  
UT2736-04416

Surface Location Description

1/4 of 1/4 of SE 1/4 of NW 1/4 of Section 29 Township 5S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location 1900 ft. from (N/S) N Line of quarter section  
and 1980 ft. from (E/W) W Line of quarter section.

WELL ACTIVITY

TYPE OF PERMIT

☐ Brine Disposal

☐ Individual

☒ Enhanced Recovery

☒ Area

☐ Hydrocarbon Storage

Number of Wells 111

Lease Name Ute Indian Tribe

Well Number UTE TRIBAL 29-06

INJECTION PRESSURE				TOTAL VOLUME INJECTED		TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	14	1863	1895	387		0	0
February	14	1806	1884	202		0	0
March	14	1844	1875	274		0	0
April	14	1803	1887	138		0	0
May	14	1823	1867	7		0	0
June	14	1825	1892	4		0	0
July	14	1804	1851	449		0	0
August	14	1837	1865	637		0	0
September	14	1790	1815	565		0	0
October	14	1848	1848	712		0	0
November	14	1848	1858	637		0	0
December	14	1846	1881	617		0	0

### Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

Date Signed

2/10/2015

EPA Form 7520-11 (Rev. 12-08)

U2 Entered  
Date 2/21/15  
Initial CW

	GREEN	BLUE	CBI
TAB		2	

## Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: Standard

multi-chem®

A HALLIBURTON SERVICE

## Water Analysis Report

Production Company: PETROGLYPH OPERATING CO INC - EBUS

Well Name: UTE TRIBAL 29-06 INJ, DUCHESNE

Sample Point: WELLHEAD

Sample Date: 1/7/2015

Sample ID: WA-297532

Sales Rep: James Patry

Lab Tech: Gary Winegar

Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	1/14/2015	Cations		Anions	
System Temperature 1 (°F):	160	mg/L		mg/L	
System Pressure 1 (psig):	1300	Sodium (Na):	3373.52	Chloride (Cl):	6000.00
System Temperature 2 (°F):	80	Potassium (K):	57.47	Sulfate (SO <sub>4</sub> ):	147.00
System Pressure 2 (psig):	15	Magnesium (Mg):	10.49	Bicarbonate (HCO <sub>3</sub> ):	3538.00
Calculated Density (g/ml):	1.0058	Calcium (Ca):	20.95	Carbonate (CO <sub>3</sub> ):	
pH:	8.50	Strontium (Sr):	5.22	Acetic Acid (CH <sub>3</sub> COO)	
Calculated TDS (mg/L):	13186.13	Barium (Ba):	4.55	Propionic Acid (C <sub>2</sub> H <sub>5</sub> COO)	
CO <sub>2</sub> in Gas (%):		Iron (Fe):	1.32	Butanoic Acid (C <sub>3</sub> H <sub>7</sub> COO)	
Dissolved CO <sub>2</sub> (mg/L):	0.00	Zinc (Zn):	0.21	Isobutyric Acid ((CH <sub>3</sub> ) <sub>2</sub> CHCOO)	
H <sub>2</sub> S in Gas (%):		Lead (Pb):	0.10	Fluoride (F):	
H <sub>2</sub> S in Water (mg/L):	50.00	Ammonia NH <sub>3</sub> :		Bromine (Br):	
		Manganese (Mn):	0.09	Silica (SiO <sub>2</sub> ):	27.21

## Notes:

B=7.99 Al=.05 Li=1.57

(PTB = Pounds per Thousand Barrels)

		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO <sub>4</sub> ·2H <sub>2</sub> O		Celestite SrSO <sub>4</sub>		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
80.00	14.00	1.54	17.70	1.40	2.60	4.26	0.73	2.31	0.96	0.00	0.00	0.00	0.00	0.00	0.00	11.42	0.11
88.00	157.00	1.54	17.70	1.32	2.58	4.18	0.73	2.35	0.96	0.00	0.00	0.00	0.00	0.00	0.00	11.23	0.11
97.00	300.00	1.56	17.72	1.24	2.55	4.12	0.73	2.39	0.96	0.00	0.00	0.00	0.00	0.00	0.00	11.07	0.11
106.00	443.00	1.57	17.75	1.17	2.52	4.06	0.73	2.43	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.91	0.11
115.00	585.00	1.59	17.77	1.10	2.49	4.01	0.73	2.47	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.76	0.11
124.00	728.00	1.60	17.79	1.05	2.46	3.97	0.73	2.51	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.62	0.11
133.00	871.00	1.63	17.82	0.99	2.43	3.94	0.73	2.55	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.49	0.11
142.00	1014.00	1.65	17.84	0.94	2.39	3.91	0.73	2.59	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.37	0.11
151.00	1157.00	1.67	17.87	0.90	2.36	3.90	0.73	2.63	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.26	0.11
160.00	1300.00	1.70	17.90	0.86	2.33	3.88	0.73	2.66	0.96	0.00	0.00	0.00	0.00	0.00	0.00	10.15	0.11

		Hemihydrate CaSO <sub>4</sub> ·0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
80.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.11	13.37	0.04	1.18	8.55	0.41	4.24	7.59	1.02
88.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.12	13.07	0.04	1.48	10.12	0.56	5.36	7.72	1.02
97.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.12	12.80	0.04	1.84	11.87	0.74	6.73	7.91	1.02
106.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.13	12.54	0.04	2.20	13.44	0.93	8.04	8.11	1.02
115.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.13	12.30	0.04	2.57	14.82	1.13	9.27	8.32	1.02
124.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.13	12.07	0.04	2.94	16.01	1.33	10.41	8.54	1.03
133.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.13	11.85	0.04	3.32	17.02	1.53	11.45	8.77	1.03
142.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	0.14	11.64	0.04	3.69	17.87	1.73	12.39	9.01	1.03
151.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.46	0.14	11.45	0.04	4.07	18.56	1.94	13.22	9.25	1.03
160.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.55	0.14	11.27	0.04	4.45	19.12	2.15	13.94	9.49	1.03

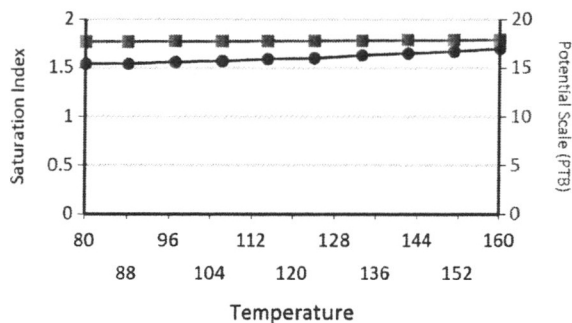


## Water Analysis Report

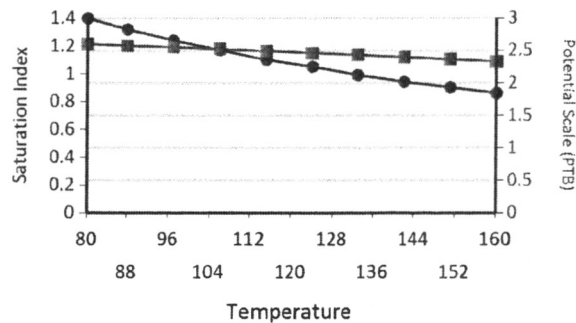
These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Sulfide Iron Carbonate Zinc Sulfide Zinc Carbonate Lead Sulfide Mg Silicate Ca Mg Silicate Fe Silicate

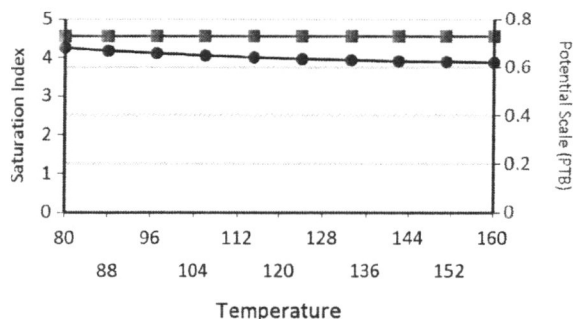
Calcium Carbonate



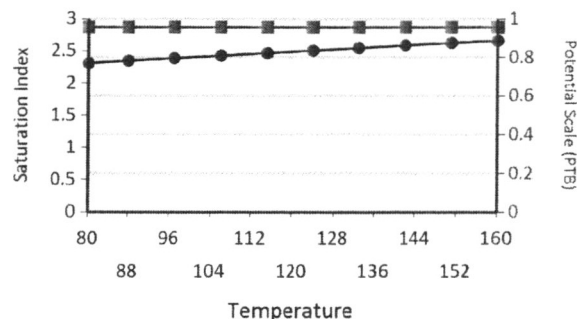
Barium Sulfate



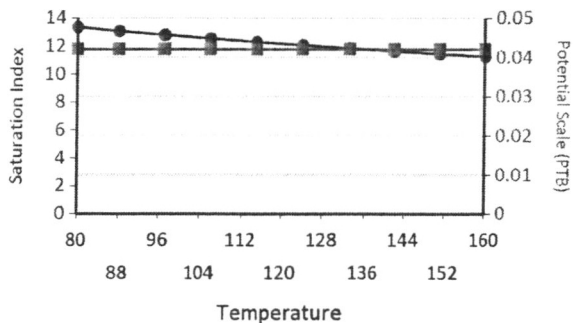
Iron Sulfide



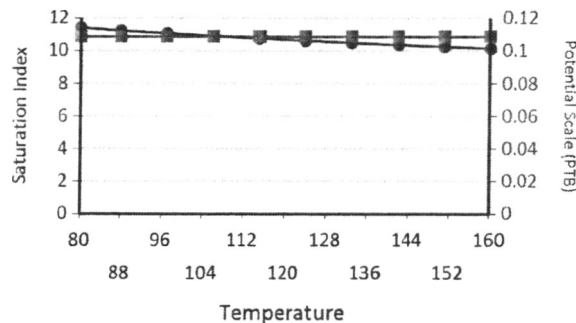
Iron Carbonate



Lead Sulfide

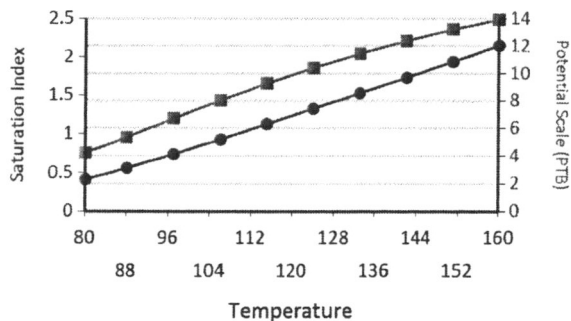


Zinc Sulfide

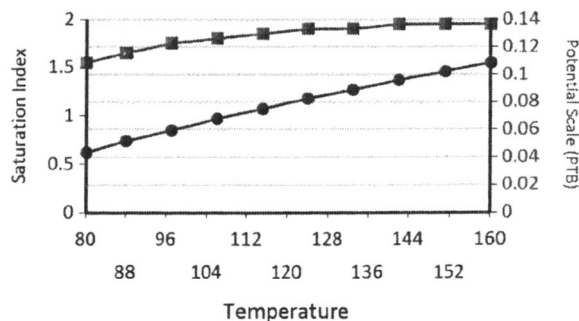


Water Analysis Report

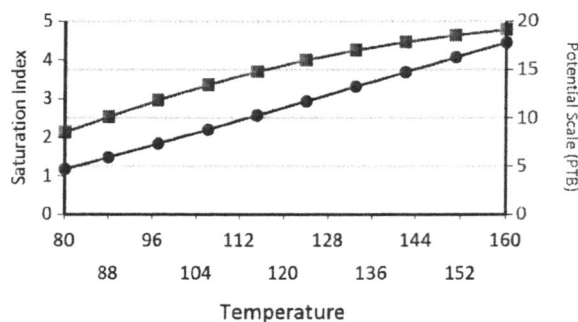
Ca Mg Silicate



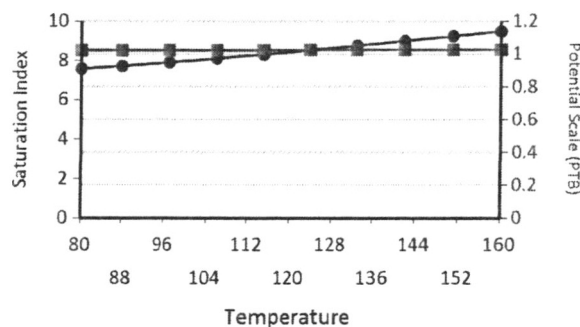
Zinc Carbonate



Mg Silicate



Fe Silicate







United States Environmental Protection Agency  
Washington, DC 20460

# ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

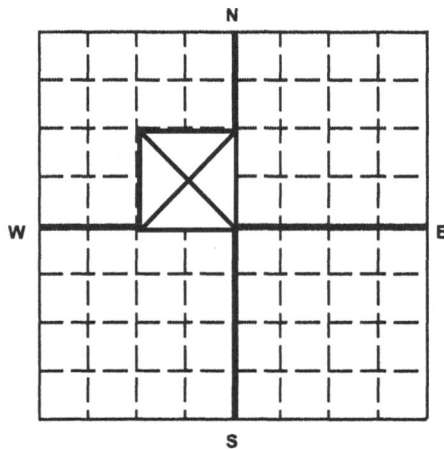
## Name and Address of Existing Permittee

Petroglyph Operating Company, Inc. 2258  
P.O. Box 7608  
Boise, Idaho 83709

## Name and Address of Surface Owner

Ute Indian Tribe  
P.O. Box 70  
Ft. Duchesne, Utah 84026

Locate Well and Outline Unit on  
Section Plat - 640 Acres



State

Utah

County

Duchesne

Permit Number

UT2736-04416

## Surface Location Description

1/4 of 1/4 of SE 1/4 of NW 1/4 of Section 29 Township 5S Range 3W

Locate well in two directions from nearest lines of quarter section and drilling unit

## Surface

Location 1900 ft. from (N/S) N Line of quarter section  
and 1980 ft. from (E/W) W Line of quarter section.

## WELL ACTIVITY

- ☐ Brine Disposal  
☒ Enhanced Recovery  
☐ Hydrocarbon Storage

## TYPE OF PERMIT

- ☐ Individual  
☒ Area

Number of Wells 111

Lease Name Ute Indian Tribe

Well Number UTE TRIBAL 29-06

## INJECTION PRESSURE

## TOTAL VOLUME INJECTED

## TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING)

MONTH	YEAR	AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January	13	1813	1855	186		0	0
February	13	1886	1921	607		0	0
March	13	1831	1903	394		0	0
April	13	1893	1912	826		0	0
May	13	1791	1930	673		0	0
June	13	1894	1912	405		0	0
July	13	1894	1935	506		0	0
August	13	1894	1952	587		0	0
September	13	1879	1918	397		0	0
October	13	1884	1898	557		0	0
November	13	1882	1896	554		0	0
December	13	1830	1858	362		0	0

## Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

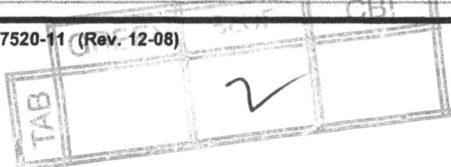
Name and Official Title (Please type or print)

Chad Stevenson, Water Facilities Supervisor

Signature

Date Signed

2/11/2014



U2 Entered

Date

3/21/14

Initial

DS

## Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

Units of Measurement: **Standard**

multi-chem®

A HALLIBURTON SERVICE

## Water Analysis Report

Production Company: **PETROGLYPH ENERGY INC**Sales Rep: **James Patry**Well Name: **UTE TRIBAL 29-06 INJ**Lab Tech: **Gary Winegar**Sample Point: **Wellhead**Sample Date: **1/8/2014**Sample ID: **WA-263023**Scaling potential predicted using ScaleSoftPitzer from  
Brine Chemistry Consortium (Rice University)

Sample Specifics		Analysis @ Properties in Sample Specifics			
Test Date:	1/15/2014	Cations	mg/L	Anions	mg/L
System Temperature 1 (°F):	180	Sodium (Na):	3808.13	Chloride (Cl):	5000.00
System Pressure 1 (psig):	1300	Potassium (K):	87.00	Sulfate (SO4):	146.00
System Temperature 2 (°F):	60	Magnesium (Mg):	18.00	Bicarbonate (HCO3):	1708.00
System Pressure 2 (psig):	15	Calcium (Ca):	47.00	Carbonate (CO3):	
Calculated Density (g/ml):	1.005	Strontium (Sr):	5.00	Acetic Acid (CH3COO)	
pH:	8.50	Barium (Ba):	11.00	Propionic Acid (C2H5COO)	
Calculated TDS (mg/L):	10856.35	Iron (Fe):	2.00	Butanoic Acid (C3H7COO)	
CO2 in Gas (%):		Zinc (Zn):	0.44	Isobutyric Acid ((CH3)2CHCOO)	
Dissolved CO2 (mg/L):	0.00	Lead (Pb):	0.02	Fluoride (F):	
H2S in Gas (%):		Ammonia NH3:		Bromine (Br):	
H2S in Water (mg/L):	0.00	Manganese (Mn):	0.22	Silica (SiO2):	23.54

## Notes:

B=5 Al=.03 Li=1.2

(PTB = Pounds per Thousand Barrels)

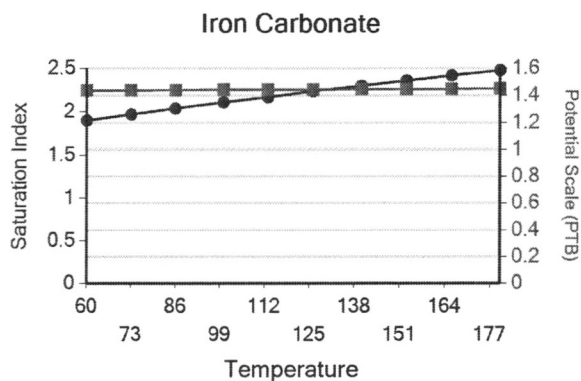
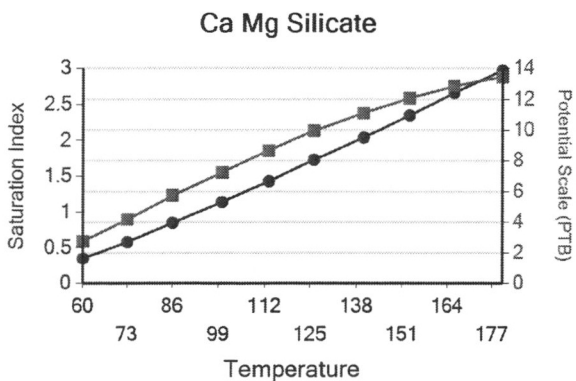
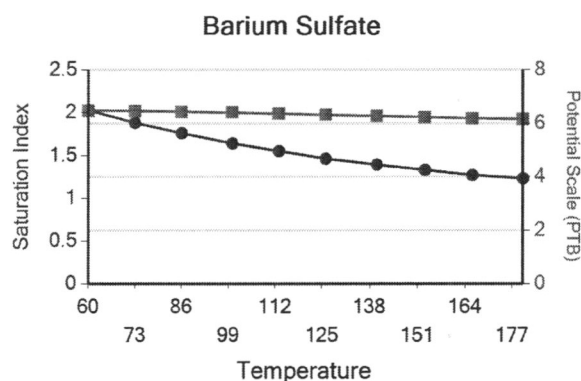
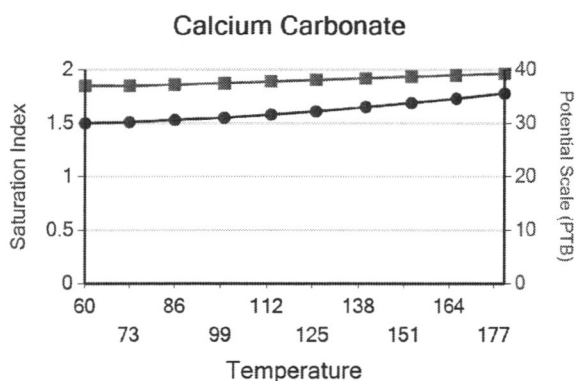
		Calcium Carbonate		Barium Sulfate		Iron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)	PSI	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	1.50	37.01	2.03	6.49	0.00	0.00	1.90	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
73.00	157.00	1.51	36.97	1.88	6.46	0.00	0.00	1.97	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
86.00	300.00	1.53	37.22	1.76	6.43	0.00	0.00	2.04	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	443.00	1.55	37.51	1.64	6.40	0.00	0.00	2.11	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
113.00	585.00	1.58	37.80	1.55	6.36	0.00	0.00	2.17	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
126.00	728.00	1.61	38.11	1.46	6.31	0.00	0.00	2.24	1.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140.00	871.00	1.65	38.42	1.39	6.27	0.00	0.00	2.30	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
153.00	1014.00	1.69	38.73	1.33	6.23	0.00	0.00	2.36	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
166.00	1157.00	1.73	39.02	1.27	6.19	0.00	0.00	2.42	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.00	1300.00	1.78	39.29	1.23	6.15	0.00	0.00	2.48	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## Water Analysis Report

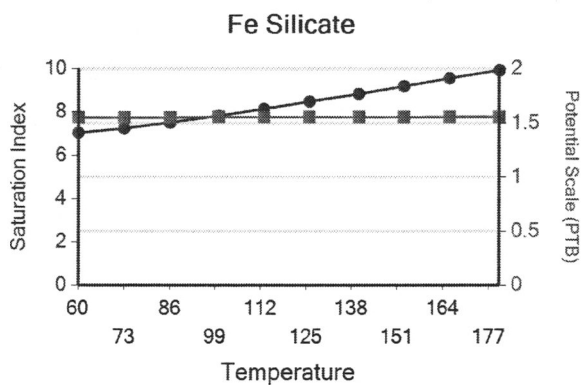
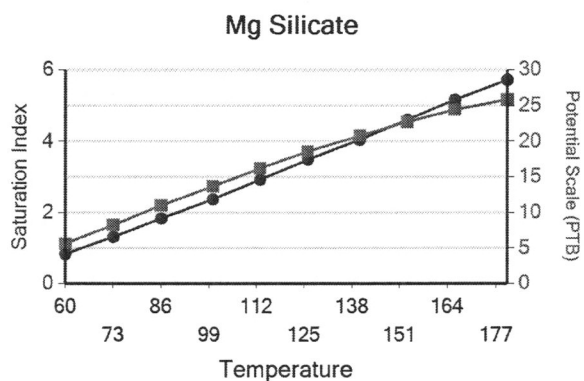
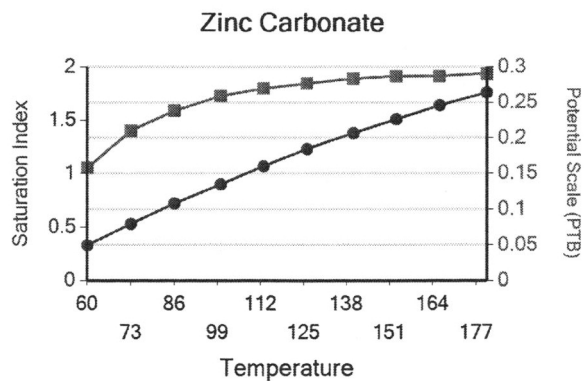
Temp (°F)	PSI	Hemihydrate CaSO <sub>4</sub> ·0.5H <sub>2</sub> O		Anhydrate CaSO <sub>4</sub>		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
		SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB
60.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.16	0.00	0.00	0.84	5.67	0.35	2.77	7.04	1.55
73.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.21	0.00	0.00	1.32	8.26	0.58	4.17	7.25	1.55
86.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.24	0.00	0.00	1.84	11.04	0.85	5.74	7.52	1.55
100.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.26	0.00	0.00	2.38	13.71	1.14	7.26	7.83	1.55
113.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	0.27	0.00	0.00	2.93	16.24	1.43	8.67	8.15	1.55
126.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.28	0.00	0.00	3.49	18.60	1.73	9.97	8.49	1.55
140.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	0.28	0.00	0.00	4.05	20.80	2.04	11.11	8.84	1.55
153.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	0.29	0.00	0.00	4.61	22.76	2.35	12.07	9.20	1.55
166.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64	0.29	0.00	0.00	5.17	24.45	2.66	12.85	9.57	1.56
180.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	1.76	0.29	0.00	0.00	5.72	25.84	2.97	13.46	9.94	1.56

These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Barium Sulfate Iron Carbonate Zinc Carbonate Mg Silicate Ca Mg Silicate Fe Silicate



Water Analysis Report







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466

MAR 11 1998

Ref: 8P2-W-GW

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Ms. Kathy Turner  
Petroleum Engineering Technician  
Petroglyph Operating Company, Inc.  
P. O. Box 1839  
Hutchinson, KS 67504-1839

RE: UNDERGROUND INJECTION CONTROL (UIC)  
**Authorization to Inject**  
**Ute Tribal #29-06 (UT04416)**  
Antelope Creek Waterflood  
EPA Area Permit No. UT2736-00000  
Duchesne County, Utah

Dear Ms. Turner:

Thank you for the recently submitted information pertaining to the above-referenced area permit and well. The Well Rework Record, injection zone fluid pore pressure survey, and the successfully run mechanical integrity test (MIT), with chart, on the Ute Tribal #29-06 (UT2736-04416) have been reviewed and approved. Petroglyph Operating Company, Inc, has complied with all of the pertinent permit conditions (Part II, Section C. 2.) for the Antelope Creek Waterflood Area Permit.

Pleased be advised that administrative approval has been granted for injection of Class II fluids into the above referenced well for enhanced recovery of oil and gas. Please also be aware of the monitoring, recordkeeping and reporting requirements described in Part II, Section D of the permit and that the current **maximum surface injection pressure (Pmax) is limited to 2015 psig**, as modified by UIC Minor Permit Modification dated January 6, 1998.

Upon receipt of this letter, the Compliance Officer, Mr. John Carson will then take over routine matters involving well operations, future correspondence, forms, and reports. Please direct all correspondence to the attention of Mr. Carson at the above letterhead (**MAIL CODE ENF-T**) or contact Mr. Carson at (303) 312-6203. Thank you for your continued cooperation.

Sincerely,

D. Edwin Hogle  
Director, Groundwater Program  
Office of Pollution Prevention,  
State and Tribal Assistance



Printed on Recycled Paper

cc: Mr. Ronald Wopsock, Chairman  
Uintah & Ouray Business Committee  
Ute Indian Tribe

Ms. Elaine Willie, Environmental Director  
Ute Indian Tribe

Mr. Norman Cambridge  
BIA - Uintah & Ouray Agency

Mr. Gil Hunt  
State of Utah Natural Resources  
Division of Oil, Gas, and Mining

Mr. Jerry Kenczka  
BLM - Vernal District Office